UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

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SUBJECT: Chemicals Evaluated for Carcinogenic Potential by the Office of

Pesticide Programs

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TO: Division Directors AD, BPPD, EFED, FEAD, HED, RD and PRD

The attached list provides an overview of chemicals evaluated for carcinogenic potential by the Health Effects Division (HED) of the Office of Pesticide Programs (OPP) through September 2014. Applying the Agency's Guidelines for Carcinogen Risk Assessment, the classification of the chemical is made by HED's Cancer Assessment Review Committee (CARC) or, in the case of where there is no evidence of carcinogenicity, by the HED Risk Assessment Team.

This list includes the chemical name, CAS Number, PC code, the cancer classification, report date, test species and tumor type(s) as well as method of quantification of cancer risk and established mode of action, as applicable.

It should be noted that the evaluation of many of these chemicals is an ongoing process, therefore, the information in this list (i.e., classification and/or the quantification) may be subject to change as new and/or additional data are submitted to OPP. This list should not be used as the single source for either the classification or quantification of the carcinogenic potential. This list will be updated annually.

If further information is required please contact me (Phone: 703-308-6175; E-mail: may.brenda@epa.gov).

Chemicals Evaluated for Carcinogenic Potential

Science Information Management Branch
Health Effects Division
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U.S. Environmental Protection Agency

BACKGROUND

What is this list?

The Chemicals Evaluated for Carcinogenic Potential provides an overview of the compounds evaluated for carcinogenicity by the Health Effects Division of the Office of Pesticide Programs.

NOTE: As new information becomes available, the list may become out-of-date. Therefore, it should not be used as the sole reference regarding the carcinogenic potential for a pesticide. EPA intends to update the list each year to include new evaluations or re-evaluations.

How does EPA review pesticides for potential carcinogenicity?

The Health Effects Division of the Office of Pesticide Programs performs an independent review of studies conducted in mice and rats to evaluate the carcinogenic potential of pesticides. The results of the independent review are peer-reviewed by the Cancer Assessment Review Committee. This committee recommends a cancer classification. The classification will determine how the Agency regulates the pesticide and will include methods for quantification of human risk. In some cases, EPA also requests review by the FIFRA Scientific Advisory Panel.

What factors does EPA consider in its review of cancer risk?

When assessing possible cancer risk posed by a pesticide, EPA considers how strongly carcinogenic the chemical is (its potency) and the potential for human exposure. The pesticides are evaluated not only to determine if they cause cancer in laboratory animals, but also as to their potential to cause human cancer. For any pesticide classified as a potential carcinogen, the risk would depend on the extent to which a person might be exposed (how much time and to what quantity of the pesticide). The factors considered include short-term studies, long-term cancer studies, mutagenicity studies, and structure activity concerns. (The term "weight-of-the-evidence" is used in referring to such a review. This means that the recommendation is not based on the results of one study, but on the results of all studies that are available.)

When does EPA review pesticides for potential carcinogenicity?

EPA reviews studies submitted when a pesticide is proposed for registration. Studies are required in two species (mice and rats) and two sexes (males and females). These studies are required for all pesticides used on food and some non-food pesticides that could lead to long-term exposures in humans. These studies may be reviewed again when a pesticide undergoes reregistration and the cancer classification may be reevaluated, particularly if new studies have been submitted.

Why are there several different cancer classifications in the list?

EPA's guidelines for evaluating the potential carcinogenicity of chemicals have been updated over the years to reflect increased understanding of ways chemicals may cause cancer. The current guidelines call for greater emphasis on characterization discussions for hazard, doseresponse assessment, exposure assessment, and risk characterization, as well as the use of mode of action in the assessment of potential carcinogenesis.

EPA does not have the resources to re-evaluate every chemical to determine how it would be described under new guidelines, and there is no reason to re-evaluate chemicals unless there is some new information that could change the basic understanding of that chemical.

How have the guidelines changed?

EPA issued its first set of principles to guide evaluation of human cancer potential in1976. In 1986, EPA issued updated guidance, which included a letter system (A-E) for designating degree of carcinogenic potential. In the 1986 guidelines, hazard identification and the weight-of evidence process focused on tumor findings. The human carcinogenic potential of agents was characterized by a six-category alphanumeric classification system (A, B1, B2, C, and D). In 1996, EPA released "Proposed Guidelines for Carcinogen Risk Assessment," which used descriptive phrases rather than the alphanumeric classification to classify carcinogenic potential. In the 1996 classification structure, increased emphasis was placed on discussing characterization of hazard, dose-response, and exposure assessments. The hazard and weight of evidence process embraced an analysis of all relevant biological information and emphasized understanding the agent's mode of action in producing tumors to reduce the uncertainty in describing the likelihood of harm. By 1999, the science related to carcinogens had advanced significantly. EPA issued draft guidelines that continued the greater emphasis on characterization discussions for hazard, dose-response assessment, exposure assessment, risk characterization and the use of mode of action in the assessment of potential carcinogenesis. In addition, the guidelines included consideration of risk to children, as well as addressing other issues such as nuances related to the amount and adequacy of data on a chemical.

In March, 2005, EPA released its final *Guidelines for Carcinogen Risk Assessment* (EPA/630/P-03/001B). These guidelines represent the culmination of a long development process, replacing EPA's original cancer risk assessment guidelines (1986) and its interim final guidelines (1999). http://www.epa.gov/cancerguidelines/

How do the different designations compare?

The short answer is that they cannot be directly compared. Each system designation refers to the reviews and criteria it contains. A substance that is, for example, a "C" in the 1986 system may not be directly translatable to any particular category in the later systems. The designation for any substance must be considered in the context of the system under which it was reviewed.

A list of the descriptors from the various classification systems and their definitions are given on the following pages.

Carcinogenicity Classification of Pesticides: Derivation and Definition of Terms

CLASSIFICATION-2005

The following descriptors from the 2005 Guidelines for Carcinogen Risk Assessment can be used as an introduction to the weight of evidence narrative in the cancer risk assessment. The examples presented in the discussion of the descriptors are illustrative. The examples are neither a checklist nor a limitation for the descriptor. The complete weight of evidence narrative, rather than the descriptor alone, provides the conclusions and the basis for them.

CARCINOGENIC TO HUMANS. This descriptor indicates strong evidence of human carcinogenicity. It covers different combinations of evidence.

- This descriptor is appropriate when there is convincing epidemiologic evidence of a causal association between human exposure and cancer.
- Exceptionally, this descriptor may be equally appropriate with a lesser weight of epidemiologic evidence that is strengthened by other lines of evidence. It can be used when all of the following conditions are met: (a) there is strong evidence of an association between human exposure and either cancer or the key precursor events of the agent's mode of action but not enough for a causal association, and (b) there is extensive evidence of carcinogenicity in animals, and (c) the mode(s) of carcinogenic action and associated key precursor events have been identified in animals, and (d) there is strong evidence that the key precursor events that precede the cancer response in animals are anticipated to occur in humans and progress to tumors, based on available biological information. In this case, the narrative includes a summary of both the experimental and epidemiologic information on mode of action and also an indication of the relative weight that each source of information carries, e.g., based on human information, and based on limited human and extensive animal experiments.

LIKELY TO BE CARCINOGENIC TO HUMANS. This descriptor is appropriate when the weight of the evidence is adequate to demonstrate carcinogenic potential to humans but does not reach the weight of evidence for the descriptor "Carcinogenic to Humans." Adequate evidence consistent with this descriptor covers a broad spectrum. As stated previously, the use of the term "likely" as a weight of evidence descriptor does not correspond to a quantifiable probability. The examples below are meant to represent the broad range of data combinations that are covered by this descriptor; they are illustrative and provide neither a checklist nor a limitation for the data that might support use of this descriptor.

Moreover, additional information, e.g., on mode of action, might change the choice of descriptor for the illustrated examples. Supporting data for this descriptor may include:

 an agent demonstrating a plausible (but not definitively causal) association between human exposure and cancer, in most cases with some supporting biological, experimental evidence, though not necessarily carcinogenicity data from animal experiments;

- an agent that has tested positive in animal experiments in more than one species, sex, strain, site, or exposure route, with or without evidence of carcinogenicity in humans;
- a positive tumor study that raises additional biological concerns beyond that of a statistically significant result, for example, a high degree of malignancy, or an early age at onset;
- a rare animal tumor response in a single experiment that is assumed to be relevant to humans; or
- a positive tumor study that is strengthened by other lines of evidence, for example, either plausible (but not definitively causal) association between human exposure and cancer or evidence that the agent or an important metabolite causes events generally known to be associated with tumor formation (such as DNA reactivity or effects on cell growth control) likely to be related to the tumor response in this case.

SUGGESTIVE EVIDENCE OF CARCINOGENIC POTENTIAL. This descriptor of the database is appropriate when the weight of evidence is suggestive of carcinogenicity; a concern for potential carcinogenic effects in humans is raised, but the data are judged not sufficient for a stronger conclusion. This descriptor covers a spectrum of evidence associated with varying levels of concern for carcinogenicity, ranging from a positive cancer result in the only study on an agent to a single positive cancer result in an extensive database that includes negative studies in other species. Depending on the extent of the database, additional studies may or may not provide further insights. Some examples include:

- a small, and possibly not statistically significant, increase in tumor incidence observed in a single animal or human study that does not
 reach the weight of evidence for the descriptor "Likely to Be Carcinogenic to Humans." The study generally would not be contradicted by
 other studies of equal quality in the same population group or experimental system (see discussions of conflicting evidence and differing
 results, below);
- a small increase in a tumor with a high background rate in that sex and strain, when there is some but insufficient evidence that the observed tumors may be due to intrinsic factors that cause background tumors and not due to the agent being assessed. (When there is a high background rate of a specific tumor in animals of a particular sex and strain, then there may be biological factors operating independently of the agent being assessed that could be responsible for the development of the observed tumors.) In this case, the reasons for determining that the tumors are not due to the agent are explained;
- evidence of a positive response in a study whose power, design, or conduct limits the ability to draw a confident conclusion (but does not
 make the study fatally flawed), but where the carcinogenic potential is strengthened by other lines of evidence (such as structure-activity
 relationships); or
- a statistically significant increase at one dose only, but no significant response at the other doses and no overall trend.

INADEQUATE INFORMATION TO ASSESS CARCINOGENIC POTENTIAL. This descriptor of the database is appropriate when available data are judged inadequate for applying one of the other descriptors. Additional studies generally would be expected to provide further insights. Some examples include:

- little or no pertinent information;
- conflicting evidence, that is, some studies provide evidence of carcinogenicity but other studies of equal quality in the same sex and strain are negative. Differing results, that is, positive results in some studies and negative results in one or more different experimental

- systems, do not constitute *conflicting evidence*, as the term is used here. Depending on the overall weight of evidence, differing results can be considered either suggestive evidence or likely evidence; or
- negative results that are not sufficiently robust for the descriptor, "Not Likely to Be Carcinogenic to Humans."

NOT LIKELY TO BE CARCINOGENIC TO HUMANS. This descriptor is appropriate when the available data are considered robust for deciding that there is no basis for human hazard concern. In some instances, there can be positive results in experimental animals when there is strong, consistent evidence that each mode of action in experimental animals does not operate in humans. In other cases, there can be convincing evidence in both humans and animals that the agent is not carcinogenic. The judgment may be based on data such as:

- animal evidence that demonstrates lack of carcinogenic effect in both sexes in well-designed and well-conducted studies in at least two
 appropriate animal species (in the absence of other animal or human data suggesting a potential for cancer effects),
- convincing and extensive experimental evidence showing that the only carcinogenic effects observed in animals are not relevant to humans,
- convincing evidence that carcinogenic effects are not likely by a particular exposure route (see Section 2.3), or
- convincing evidence that carcinogenic effects are not likely below a defined dose range.

A descriptor of "not likely" applies only to the circumstances supported by the data. For example, an agent may be "Not Likely to Be Carcinogenic" by one route but not necessarily by another. In those cases that have positive animal experiment(s) but the results are judged to be not relevant to humans, the narrative discusses why the results are not relevant.

MULTIPLE DESCRIPTORS. More than one descriptor can be used when an agent's effects differ by dose or exposure route. For example, an agent may be "Carcinogenic to Humans" by one exposure route but "Not Likely to Be Carcinogenic" by a route by which it is not absorbed. Also, an agent could be "Likely to Be Carcinogenic" above a specified dose but "Not Likely to Be Carcinogenic" below that dose because a key event in tumor formation does not occur below that dose.

CLASSIFICATION -1999 Draft

The terms used to describe carcinogenic potential in the July 1999 "Review Draft of the Guidelines for Carcinogen Risk Assessment" are listed and defined as follows:

CARCINOGENIC TO HUMANS. This descriptor is appropriate when there is convincing epidemiologic evidence demonstrating causality between human exposure and cancer. This descriptor is also appropriate when there is an absence of conclusive epidemiologic evidence to clearly establish a cause and effect relationship between human exposure and cancer, but there is compelling evidence of carcinogenicity in animals and mechanistic information in animals and humans demonstrating similar mode(s) of carcinogenic action. It is used when all of the following conditions are met:

- There is evidence in a human population(s) of association of exposure to the agent with cancer, but not enough to show a causal association, and
- There is extensive evidence of carcinogenicity, and
- The mode(s) of carcinogenic action and associated key events have been identified in animals, and
- The keys events that precede the cancer response in animals have been observed in the human population(s) that also shows evidence of an association of exposure to the agent with cancer.

LIKELY TO BE CARCINOGENIC TO HUMANS. This descriptor is appropriate when the available tumor effects and other key data are adequate to demonstrate carcinogenic potential to humans. Adequate data are within a spectrum. At one end is evidence for an association between human exposure to the agent and cancer and strong experimental evidence of carcinogenicity in animals; at the other, with no human data, the weight of experimental evidence shows animal carcinogenicity by a mode or modes of action that are relevant or assumed to be relevant to humans.

SUGGESTIVE EVIDENCE OF CARCINOGENICITY, BUT NOT SUFFICIENT TO ASSESS HUMAN CARCINOGENIC POTENTIAL. This descriptor is appropriate when the evidence from human or animal data is suggestive of carcinogenicity, which raises a concern for carcinogenic effects but is judged not sufficient for a conclusion as to human carcinogenic potential. Examples of such evidence may include: a marginal increase in tumors that may be exposure-related, or evidence is observed only in a single study, or the only evidence is limited to certain high background tumors in one sex of one species. Dose-response assessment is not indicated for these agents. Further studies would be needed to determine human carcinogenic potential.

DATA ARE INADEQUATE FOR AN ASSESSMENT OF HUMAN CARCINOGENIC POTENTIAL. This descriptor is used when available data are judged inadequate to perform an assessment. This includes a case when there is a lack of pertinent or useful data or when existing evidence is conflicting, e.g., some evidence is suggestive of carcinogenic effects, but other equally pertinent evidence does not confirm a concern.

NOT LIKELY TO BE CARCINOGENIC TO HUMANS. This descriptor is used when the available data are considered robust for deciding that there is no basis for human hazard concern. The judgment may be based on:

- Extensive human experience that demonstrates lack of carcinogenic effect (e.g., phenobarbital).
- Animal evidence that demonstrates lack of carcinogenic effect in at least two well- designed and well-conducted studies in two
 appropriate animal species (in the absence of human data suggesting a potential for cancer effects).
- Extensive experimental evidence showing that the only carcinogenic effects observed in animals are not considered relevant to humans (e.g., showing only effects in the male rat kidney due to accumulation of alpha_{2u}-globulin).
- Evidence that carcinogenic effects are not likely by a particular route of exposure.
- Evidence that carcinogenic effects are not anticipated below a defined dose range.

CLASSIFICATION-1996

In April 1996, EPA released the "Proposed Guidelines for Carcinogen Risk Assessment." This scheme varied from the earlier 1986 scheme in that it used descriptors rather than letters to classify carcinogenic potential. The descriptors are:

KNOWN/LIKELY. This category of descriptors is appropriate when the available tumor effects and other key data are adequate to convincingly demonstrate carcinogenic potential for humans.

CANNOT BE DETERMINED. This category of descriptors is appropriate when available tumor effects or other key data are suggestive or conflicting or limited in quantity and, thus, are not adequate to convincingly demonstrate carcinogenic potential for humans. In general, further agent specific and generic research and testing are needed to be able to describe human carcinogenic potential.

NOT LIKELY. This is the appropriate descriptor when experimental evidence is satisfactory for deciding that there is no basis for human hazard concern, as follows (in the absence of human data suggesting a potential for cancer effects).

CLASSIFICATION -1986

The following cancer classification scheme was first introduced in 1986. It was used until 1996.

GROUP A-HUMAN CARCINOGEN. This group is used only when there is sufficient evidence from epidemiologic studies to support a causal association between exposure to the agents and cancer.

GROUP B-PROBABLE HUMAN CARCINOGEN. This group includes agents for which the weight of evidence of human carcinogenicity based on epidemiologic studies is "limited" and also includes agents for which the weight of evidence of carcinogenicity based on animal studies is "sufficient." The group is divided into two subgroups. **Group B1** is reserved for agents for which there is limited evidence of

carcinogenicity from epidemiologic studies. **Group B2** is used for Agents for which there is "sufficient: evidence from animal studies and for which there is "inadequate evidence" or "no data" from epidemiologic studies.

GROUP C-POSSIBLE HUMAN CARCINOGEN. This group is used for agents with limited evidence of carcinogenicity in animals in the absence of human data.

GROUP D-NOT CLASSIFIABLE AS TO HUMAN CARCINOGENICITY. This group is generally used for agents with inadequate human and animal evidence of carcinogenicity or for which no data are available.

GROUP E-EVIDENCE OF NON-CARCINOGENICITY FOR HUMANS. This group is used for agents that show no evidence for carcinogenicity in at least two adequate animal tests in different species or in both adequate epidemiologic and animal studies.

OTHER DEFINITIONS

Quantification of Cancer Risk - Carcinogenic Potency Factor (Q1*)

Q1 STAR (Q1*) - In the classification of human or probable-human carcinogens, mathematical models are used to estimate an upper-bound excess cancer risk associated with lifetime ingestion in the diet. The data used in these estimates usually come from lifetime exposure studies in animals. The USEPA generally uses the linearized multistage model for its cancer risk assessment. This model fits linear dose-response curves to low doses and is consistent with a no-threshold model of carcinogenesis, i.e., exposure to even a very small amount of the substance produces a finite increased risk of cancer.

The linearized multistage model uses dose-response data from the most appropriate carcinogenic study to calculate a carcinogenic potency factor (q₁*) for humans. The q₁* is then used to determine the concentrations of the chemical in the diet that are associated with theoretical upperbound excess lifetime cancer risks of 1 in 10,000, 1 in 100,000, and 1 in 1,000,000 (10-4, 10-5, 10-6 respectively) individuals over a lifetime of exposure.

Mode of Action (MOA) - The key cellular and biochemical events that have to happen for a biological effect to develop. Mode of action is contrasted with mechanism of action which is a more complete understanding of the step by step pathway leading to a biological effect. Some established MOAs include:

Androgen Dependent - The chemical disrupts the normal levels of reproductive hormones (e.g., testosterone, luteinizing hormone) which in turn stimulates the target tissue (e.g., leydig cells, testicular tissue) to divide which may lead to hyperplasia and neoplasia. For agents to pose a hazard to humans by this MOA, sufficient exposure levels need to be encountered which produce the same level of biological effect as seen in rodents. This is consistent with the MOA for Leydig cell tumorigenesis.

Cytotoxicity and Regenerative Proliferation - Continuous exposure to a chemical or its metabolite causes persistent cell killing which in turn may result in a persistent regenerative proliferative response in the damaged tissue. For irreversible tissue alterations to occur in humans, including cancer by this mode of action, a sufficient exposure must be encountered over a prolonged period.

Mitogenesis - Mitogenic chemicals act by promoting the clonal expansion of preneoplastic cells by stimulating cell proliferation. This mode of action is frequently found in the rodent liver where it is generally associated with an increase in metabolizing enzymes. A mitogenic chemical stimulates cell proliferation in the target organ without obvious cytotoxicity or cell death. Another important feature of this MOA is that the mitogenic effect is not persistent over time; instead it is resolved and then is manifested within proliferative foci which are considered preneoplastic lesions. Through continuous exposure, it is these preneoplastic lesions that develop into tumors. At this time, the adverse health effects caused by this MOA are presumed to be relevant to humans.

Mutagenesis - The chemical or a metabolite has the ability to react with or bind DNA in a manner that causes mutations. It is usually positive in multiple test systems for different genetic endpoints (particularly gene mutations and structural chromosome aberrations) and in tests performed *in vivo* and *in vitro*. Adverse health effects in rodents from these chemicals are considered relevant for human health risk.

Neuroendrocrine Disruption - Chemicals that disrupt hypothalamic control of pituitary function leading to a decrease in hormone release (e.g., luteinizing hormone) and the disruption of the ovarian cycle. This may result in an increase in cell proliferation in the mammary gland due to a hyperstimulation by estrogen. In the case of chloro-s-triazines, this neuroendocrine MOA is not considered relevant to humans because it depends on a rodent specific reproductive process.

PPAR-alpha Agonism - Chemicals that bind to and activate the Peroxisome Proliferator-Activated Receptor (PPAR) stimulate biological responses in the liver (e.g., peroxisome proliferation, induction of lipid metabolizing enzymes, oxidative stress, and hepatocyte mitogenesis). Activation of PPAR-alpha results in an increase in cell proliferation and clonal expansion of preneoplastic foci in the liver. While the human relevance of this MOA has not been definitively determined, most of the evidence indicates that this mode of action is not operative in the human liver.

Thyroid Hormone Disruption - Disruption of normal levels of thyroid hormones may lead to an increase of thyroid stimulating hormone (TSH) which results in an increase in cell proliferation of the thyroid gland. If exposure is continuous in the animal, thyroid follicular cell tumors can potentially develop. However, the development of thyroid cancer by this mode of action in humans is considered unlikely since prolonged stimulation of the thyroid gland by TSH has not been associated with tumorigenesis in humans. However, this MOA is relevant as an indicator for potential noncancer health effects (e.g., goiter, neurodevelopmental, etc) due thyroid disruption in humans.

Chemicals Evaluated for Carcinogenic Potential

Science Information Management Branch

Health Effects Division

Office of Pesticide Programs

U.S. Environmental Protection Agency

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT DATE	QUANTIFICATION METHOD	TUMOR SITES/ STRAIN/ SPECIES/ SEX
1,3-Dibromo-5,5-			Not Likely To Be Carcinogenic			
dimethylhydantoin	77-48-5	006317	To Humans	8/28/2000	NR	Not Applicable
			Not Likely to Be Carcinogenic			
1,3-dichloro-5-methylhydantoin	89415-87-2	128826	to Humans	8/28/2000	NR	Not Applicable
2, 4 - DBA	94-82-6	030801	Not Likely to Be Carcinogenic to Humans	6/13/2003	NR	Not Applicable
2,4-D + Salts & Esters	94-75-7	030001	Group DNot Classifiable as to Human Carcinogenicity	1/29/1997	NR	Not Applicable
2,4-D Choline	1048373-72-3	051505	Group DNot Classifiable As To Human Carcinogenicity	10/27/2011	NR	Not Applicable
2-Benzyl-4-chlorophenol	120-32-1	062201	Group CPossible Human Carcinogen	9/5/1995	RfD Approach	Kidney tumors in B6C3F1 mice (M) Kidney tumors in F344/N rats (F)
4-aminopyridine	504-24-5	069201	Group DNot Classifiable As To Human Carcinogenicity	8/6/2007	NR	Not Applicable
Acephate	30560-19-1	103301	Group CPossible Human Carcinogen	5/8/1985	NR	Liver tumors in CD-1 mice (F)
Acequinocyl	57960-19-7	006329	Not Likely to Be Carcinogenic to Humans	11/13/2003	NR	Not Applicable
Acetamide	63114-77-2	111101	Group CPossible Human Carcinogen	5/29/1990	NR	Liver tumors in Wistar rats (M) Liver tumors in F344 rats (M & F)
Acetamiprid	135410-20-7	099050	Not Likely to Be Carcinogenic to Humans	12/11/2001	NR	Not Applicable

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
				DATE	METHOD	
						Lung tumors in CD- 1 mice (M & F)
						Ovarian tumors in CD-1 mice (F); Established a cytotoxic
						(secondary to oxidative damage by a reactive quinone imine
			Suggestive Evidence of			intermediate) mode of action for the nasal olfactory epithelial
Acetochlor	34256-82-1	121601	Carcinogenic Potential	1/3/2007	RfD Approach	tumors and a hormonal mode of action for
			Not Likely to Be Carcinogenic			
Acibenzolar-S-methyl	135158-54-2	061402	to Humans	12/9/1999	NR	Not Applicable
			Likely to be Carcinogenic to			
			Humans at High Doses Not			Liver tumors in B6C3F1 (M & F)
			Likely to be Carcinogenic to			Liver tumors in CD-1 mice (M & F); Established a PPARa mode
Acifluorfen sodium	62476-59-9	114402	Humans at Low Doses	7/9/2003	MOE Approach	of action for liver tumors in mice
			Group DNot Classifiable as to			
Acrinathrin	101007-06-1	129141	Human Carcinogenicity	7/15/1996	NR	Not Applicable
			Not Likely to Be Carcinogenic			
ADBAC	68424-85-1	069105	to Humans	12/8/1999	NR	Not Applicable
			Likely to be Carcinogenic to			
			Humans (High Doses); Not			Tumors at multiple sites (Stomach, Nose & Thyroid) in Long
			Likely to be Carcinogenic to			Evans rats (M & F); Established a thyroid hormonal mode of
Alachlor	15972-60-8	090501	Humans (Low Doses)	6/27/1997	MOE Approach	action for thyroid tumors in rats.
			Group EEvidence of Non-			
Aldicarb	116-06-3	098301	carcinogenicity for Humans	7/17/2002	NR	Not Applicable
			Group CPossible Human			
Alpha-Cypermethrin	67375-30-8	209600	Carcinogen	09/11/12	NR	Lung tumors in Alderly Park SPF Swiss mice (F)
			Data Are Inadequate for an			
			Assessment of Human			
Ametryn	834-12-8	080801	Carcinogenic Potential	9/17/2004	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Amicarbazone	129909-90-6	114004	To Humans	8/10/2005	NR	Not Applicable
	858956-08-8,					
	858956-35-1,					
	858954-83-3,					
	124423-84-3,		Not Likely To Be Carcinogenic			
Aminocyclopyrachlor	1759-53-1	288008	To Humans	11/9/2011	NR	Not applicable
			Not Likely To Be Carcinogenic			
Aminopyralid	150114-71-9	005100	To Humans	7/12/2005	NR	Not Applicable
			Suggestive Evidence Of			CD-1 Mouse (M) Liver; Wistar Rat Liver (M & F); Wistar Rat
Amisulbrom	348635-87-0	016330	Carcinogenic Potential	12/2/2010	NR	Forestomach (F)

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
				DATE	METHOD	Lymphoreticular tumors in CFLP mice (F)
			Suggestive Evidence of			Liver tumors in B6C3F1 mice (F)
Amitraz	33089-61-1	106201	Carcinogenic Potential	7/18/2006	NR	Lung tumors B6C3F1 mice (M)
Allitidz	33089-01-1	100201	Carcinogenic Potential	7/18/2006	INK	Lung tumors bocset mice (ivi)
	64.00.5	204404	Not Likely To Be Carcinogenic To Humans At Doses That Do Not Alter Rat Thyroid	E 144 19995		Thyroid in Charworth Farms rats (M), Fischer 344 rats (M) & Wistar rats (M & F); Established a thyroid hormonal mode of
Amitrole	61-82-5	004401	Hormone Homeostasis	5/11/2006	NR	action for thyroid tumors.
Anthraquinone	84-65-1	122701	Likely To Be Carcinogenic To Humans	10/31/12		Kidney in F344/N Rat (F); Liver in B6C3F1 Mouse (M & F); Thyroid in B6C3F1 Mouse (M & F); N/A
			Not Likely To Be Carcinogenic			
Aquashade	2650-18-2	110301	To Humans	9/27/2005	NR	Not Applicable
Asulam	3337-71-1	106901	Group CPossible Human Carcinogen	12/6/2001	NR	Thyroid & Adrenal tumors in Sprague-Dawley rats (M)
Atrazine	1912-24-9	080803	Not Likely to be Carcinogenic to Humans	12/13/2000	NR	Mammary and pituitary tumors in female SD rat.; Established a neuroendocrine disruption mode of action for mammary and pituitary tumors in rats.
Avermectin (see Emamectin	1312 2 1 3	000003	Group EEvidence of Non-	12/13/2000	1111	and pitalitary turnors in rate.
Benzoate)	65195-55-3	122804	carcinogenicity for humans	6/27/1996	NR	Not Applicable
20.120000)	00130 00 0		Data Are Inadequate for an Assessment of Human	6,27,2330		, see a particular and a see a
Azafenidin	68049-83-2	119016	Carcinogenic Potential	10/18/1999	NR	Not Applicable
Azinphos-methyl	86-50-0	058001	Not Likely to Be Carcinogenic to Humans	4/20/1998	NR	Not Applicable
Azoxystrobin	131860-33-8	128810	Not Likely to Be Carcinogenic to Humans	1/14/1997	NR	Not Applicable
Bendiocarb	22781-23-3	105201	Group EEvidence of Non- carcinogenicity for Humans	12/16/1997	NR	Not Applicable
			Suggestive Evidence of Carcinogenicity, but Not Sufficient to Assess Human			
Benfluralin	1861-40-1	084301	Carcinogenic Potential	12/27/2001	NR	Liver tumors in B6C3F1 mice (F)
			Group CPossible Human			Liver tumors in CD-1 mice (M &F)
Benomyl	17804-35-2	099101	Carcinogen	9/21/2000	Q1* = 2.39 E-3 (3/4)	Liver tumors in Swiss SPF mice (M & F)
			Not Likely to Be Carcinogenic			
Bensulide	741-58-2	009801	to Humans	6/10/1999	NR	Not Applicable

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
				DATE	METHOD	
			Group EEvidence of Non-			
Bentazon	25057-89-0	275200	carcinogenicity for Humans	1/14/1992	NR	Not Applicable
						Liver tumors in B6C3F1 Mice (M &F)
			Likely to be Carcinogenic to			Thyroid tumors in B6C3F1 Mice (M)
Benthiavalicarb-isopropyl	177406-68-7	098379	Humans	10/18/2005	Q1* = 6.2795 E-2 (3/4)	Uterine tumors in Fisher 344 Rat (F)
			Not Likely To Be Carcinogenic			
Benzyl Benzoate	120-51-4	009501	To Humans	6/28/2007	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Beta Cyfluthrin	68359-37-5	118831	To Humans	1/27/2010	NR	Not Applicable
			Suggestive Evidence Of			
Bicyclopyrone	365400-11-9	018986	Carcinogenic Potential	09/10/2014	RfD Approach	Ocular tumors in Han Wistar Rat (M)
			Not Likely to Be Carcinogenic			
Bifenazate	149877-41-8	000586	to Humans	8/28/2001	NR	Not Applicable
			Group CPossible Human			Urinary bladder & Liver tumors (M) and Lung tumors (F) in
Bifenthrin	82657-04-3	128825	Carcinogen	2/19/2003	RfD Approach	Swiss Webster mice
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Bioallethrin	584-79-2	004003	Carcinogenic Potential	12/02/2003	NR	Kidney tumors in Sprague-DawleyCrl-CD-SD (BR) rats (M)
			Not Likely to Be Carcinogenic			
Bispyrabac Sodium	125401-92-5	078906	to Humans	8/2/2001	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Bitertanol	55179-31-2	117801	To Humans	11/30/2005	NR	Not Applicable
Ditertanoi	33173-31-2	117001	Group EEvidence of Non-	11/30/2003	IVIX	Not Applicable
Borax	1303-96-4	011102	carcinogenicity for humans	11/24/1993	NR	Not Applicable
Bolax	1303-30-4	011102	Group EEvidence of Non-	11/24/1333	IVIX	Not Applicable
Boric acid	10043-35-3	011001	carcinogenicity for humans	11/24/1993	NR	Not Applicable
Boric acid	10043-33-3	011001	Group EEvidence of Non-	11/24/1993	INIX	Not Applicable
Poron	7440-42-8	128945	carcinogenicity for humans	11/24/1993	NR	Not Applicable
Boron	7440-42-6	120945	-	11/24/1995	INU	Not Applicable
			Suggestive Evidence of Carcinogenicity, but Not			
Doccalid	100435 05 6	120000	Sufficient to Assess Human	11/14/2002	ND	Thursid tumors in Wistor rate (NA 9 5)
Boscalid	188425-85-6	128008	Carcinogenic Potential	11/14/2002	NR	Thyroid tumors in Wistar rats (M & F)
Dunnanil	244.40.0	043304	Group CPossible Human	4 /4 2 /4 002	DED Assured to	Liver tumors in CD-1 mice (M)
Bromacil	314-40-9	012301	Carcinogen	1/13/1993	RfD Approach	Thyroid tumors in Crl:CD (BR) rats (M)

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
				DATE	METHOD	
			Group CPossible Human			
Bromoxynil	1689-84-5	035301	Carcinogen	03/12/1997	Q1* = 1.03 E-1 (3/4)	Liver tumors in CD-1 mice (M & F)
			Group EEvidence of Non-			
Bromuconazole	116255-48-2	120503	carcinogenicity for humans	4/24/1995	NR	Not Applicable
			Group EEvidence of Non-			
Bronopol	52-51-7	216400	carcinogenicity for humans	6/12/1995	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Buprofezin	69327-76-0	275100	Carcinogenic Potential	3/15/2000	NR	Liver tumors in CD-1 mice (F)
			Likely to be Carcinogenic to			Tumors at multiple sites: Stomach (F) and Kidney, Nose,
Butachlor	23184-66-9	112301	Humans	2/24/1999	NR	Thyroid (M & F) in Sprague-Dawley rats
			Not Likely to Be Carcinogenic			
Butafenacil	134605-64-4	122004	to Humans	7/11/2003	NR	Not Applicable
			Group EEvidence of Non-			
Butylate	2008-41-5	041405	carcinogenicity for humans	11/25/1992	NR	Not Applicable
			Group BProbable Human			Urinary bladder tumors in Fischer 344 rats (M & F)
Cacodylic acid	75-60-5	012501	Carcinogen	12/14/1999	Q1* = 6.23 E-2 (3/4)	Fibrosarcomas in multiple organs in B6C3F1 mice (F)
			Group EEvidence of Non-			
Cadusafos	95465-99-9	128864	carcinogenicity for humans	5/28/1992	NR	Not Applicable
Captafol	2939-80-2	081701	Group BProbable Human Carcinogen	5/19/1987	Q1* = 5.1 E-2 (2/3)	Mammary and Liver tumors in Sprague-Dawley rats (F) Kidney tumors in Sprague-Dawley rats (M & F) Lymphosarcomas & Hemangiosarcomas in CD-1 mice (M & F) Harderian gland tumors in CD-1 mice (M)
Captan	133-06-2	081301	Likely at prolonged, high-level exposures, but not likely at dose levels that do not cause cytotoxicity and regenerative cell hyperplasia	9/22/2004	NR	Intestinal tumors in CD-1 mice (M & F); Established a cytotoxic and regenerative proliferation mode of action for intestinal tumors.
			Likely to be Carcinogenic to			
Carbaryl	63-25-2	056801	Humans	2/12/2002	Q1* = 8.75 E-4 (3/4)	Vascular tumors in CRL:CD-1 (ICR)BR mice (M)
			Group CPossible Human			Liver tumors in CD-1 mice (M & F)
Carbendazim (MBC)	10605-21-7	128872	Carcinogen	4/7/1989	Q1* = 2.39 E-3 (3/4)	Liver tumors in Swiss SPF (M & F)
			Not Likely to Be Carcinogenic			
Carbofuran	1563-66-2	090601	to Humans	6/17/1997	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Carboxin	5234-68-4	090201	to Humans	6/5/2003	NR	Not Applicable

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT DATE	QUANTIFICATION METHOD	TUMOR SITES/ STRAIN/ SPECIES/ SEX
			Not Likely to Be Carcinogenic			
Carfentrazone-ethyl	128639-02-1	128712	to Humans	5/16/2001	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Chlorantraniliprole	500008-45-7	090100	To Humans	3/4/2009	NR	Not Applicable
			Group BProbable Human			
Chlordimeform	6164-98-3	059701	Carcinogen	12/20/1985	Q1* = 1.29 E-1 (3/4)	Hemangioendothelomas in Tif:MAG:SPF mice (M & F)
			Group DNot Classifiable as to			
Chlorethoxyfos	54593-83-8	129006	Human Carcinogenicity	3/9/1995	NR	Not Applicable
Ciliorethoxyros	34333-63-6	123000	Suggestive Evidence of	3/3/1333	INIX	Not Applicable
			Carcinogenicity, but Not			Townson at more things after the contract of t
	100 150 70 0	12222	Sufficient to Assess Human	2/42/2022		Tumors at multiple sites (Liver, Histiocytic sarcomas and
Chlorfenapyr	122453-73-0	129093	Carcinogenic Potential	3/18/2003	NR	Testes in M; Uterus in F) in Sprague Dawley rats
			Not Likely To Be Carcinogenic			
Chlorflurenol Methyl Ester	2536-31-4	098801	To Humans	7/10/2006	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Chlorimuron-ethyl	90982-32-4	128901	To Humans	2/5/2009	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Chlormequat chloride	999-81-5	018101	To Humans	6/12/2007	NR	Not Applicable
						Spleen tumors in F344/N rats (M)
						Adrenal tumors in F344/N rats (M & F)
			Group BProbable Human			Liver tumors in B6C3F1 mice (M)
Chloroaniline, p-	106-47-8	017203	Carcinogen	4/27/1995	Q1* = 1.12 E-1 (3/4)	Spleen tumors in B6C3F1 mice (M)
			Data Are Inadequate for an			
			Assessment of Human			
Chloroneb	2675-77-6	027301	Carcinogenic Potential	12/18/2003	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Chloropicrin	76-06-2	081501	To Humans	6/30/2010	NR	Not Applicable
·						Kidney tumors in CD-1 mice (M),
						Kidney tumors in Fischer 344 rats (M & F)
						Kidney tumors in Osborne-Mendel rats (M & F)
			Likely To Be Carcinogenic To			Forestomach tumors in Fischer 344 rats (M & F)
Chlorothalonil	1897-45-6	081901	Humans	10/20/1997	MOE Approach	Forestomach tumorsCD-1 mice (M & F)
	2007 10 0	552501	Group EEvidence of Non-			
Chlorpropham	101-21-3	018301	carcinogenicity for humans	10/11/1994	NR	Not Applicable
C. II OF I OF I II II	101 21 3	010301	Group EEvidence of Non-	10/11/1007	140	Troc repriessie
Chlorpyrifos	2921-88-2	059101	carcinogenicity for humans	11/23/1993	NR	Not Applicable
Спогруппоѕ	Z2Z1-99-Z	029101	caremogernicity for Humans	11/52/1332	INU	Inot Applicable

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				DATE	METHOD	
			Not Likely to Be Carcinogenic			
Chlorpyrifos methyl	5598-13-0	059102	to Humans	5/17/1999	NR	Not Applicable
			Group EEvidence of Non-			
Chlorsulfuron	64902-72-3	118601	carcinogenicity for humans	7/17/2002	NR	Not Applicable
						Thyroid tumors in Sprague-Dawley rats(M & F)
			Group CPossible Human			Liver tumors in Sprague-Dawley rats (F)
Chlorthal-dimethyl (DCPA)	1861-32-1	078701	Carcinogen	2/10/1995	Q1* = 1.49 E-3 (3/4)	Liver tumors CD-1 mice (F)
			Not Likely To Be Carcinogenic			
Clethodim	99129-21-2	121011	To Humans	9/28/2007	NR	Not Applicable
						Prostate gland tumors in Tif: RAIf (SPF) rat (M)
			Suggestive Evidence of			Liver tumors in Tif:MAGf (SPF) mouse (M &F); Established a
Clodinafop-propargyl	105512-06-9	125203	Carcinogenic Potential	2/8/2006	NR	PPARa mode of action for liver tumors.
			Group CPossible Human			
Clofencet (MON 21200)	82697-71-0	128726	Carcinogen	7/23/1996	RfD Approach	Histiocytic sarcomas in CD-1 mice (F)
			Group CPossible Human			
Clofentezine	74115-24-5	125501	Carcinogen	4/3/1990	Q1* = 3.76 E -2 (3/4)	Thyroid tumors in Sprague-Dawley rats (M)
			Not Likely to Be Carcinogenic			
Clomazone	81777-89-1	125401	to Humans	1/31/2001	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Clopyralid	1702-17-6	117403	to Humans	12/20/1999	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Cloquintocet-mexyl	99607-70-2	700099	to Humans	8/31/1999	NR	Not Applicable
			Group EEvidence of Non-			
Cloransulam-methyl	147150-35-4	129116	carcinogenicity for humans	9/30/1997	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Clothianidin	210880-92-5	044309	to Humans	1/6/2003	NR	Not Applicable
			Likely To Be Carcinogenic To			Rat Crl:CD (BR) (M) Liver; Mouse CD-1 (M & F) Lung and
CMNP (Pyrazachlor)	6814-58-0	207100	Humans	09/20/2011	Q1* = 2.36 X 10 E -2	Kidney
CIVINF (FYI AZACIIIOI)	0614-36-0	207100	Likely to be Carcinogenic to	09/20/2011	Q1 - 2.30 × 10 E -2	Liver tumors in B6C3F1 mice (M &F)
Cocamide Diethanolamine	68603-42-9	224600	,	10/17/2001	Q1* = 4.01 E-1 (3/4)	· · ·
Cocamide Diethanolamine	08003-42-9	224600	Humans	10/17/2001	$Q1^{\circ} = 4.01 \text{ E-1 } (3/4)$	Kidney tumors in B6C3F1 mice (M)
			Group DNot Classifiable As			
Copper Compounds	20427-59-2	023401	To Human Carcinogenicity	6/13/2006	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Coumaphos	56-72-4	036501	to Humans	6/25/1999	NR	Not Applicable

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			Group DNot Classifiable as to			
Cresol, p-Chloro-m-	59-50-7	064206	Human Carcinogenicity	11/28/1995	NR	Not Applicable
			Group DNot Classifiable as to			
Cryolite	15096-52-3	075101	Human Carcinogenicity	12/22/1995	NR	Not Applicable
			Suggestive Evidence Of			
Cumyluron	99485-76-4	027902	Carcinogenic Potential	6/11/2008	NR	Liver tumors in B6C3F1 mice (M &F)
			Group CPossible Human			
Cyanazine	21725-46-2	100101	Carcinogen	7/30/1991	Q1* = 1.01 E-0 (2/3)	Mammary gland tumors in Sprague- Dawely rats (F)
			Not Likely To Be Carcinogenic			
Cyantraniliprole	736994-63-1	090098	To Humans	03/07/13	NR	Not applicable
			Not Likely To Be Carcinogenic			
Cyazofamid	120116-88-3	085651	To Humans	6/3/2009	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Cyclanilide	113136-77-9	026201	to Humans	4/9/1997	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Cycloate	1134-23-2	041301	to Humans	9/25/2003	NR	Not Applicable
			Likely To Be Carcinogenic To			Thyroid Follicular Cell tumors in Crl:CD Rat (M); Liver CD-1
Cyflufenamid	180409-60-3	555550	Humans	6/22/2010	Q1* = 6.61 E -3 (3/4)	Mouse (M)
			Suggestive Evidence Of			
Cyflumetofen	400882-07-7	138831	Carcinogenic Potential	12/30/2013	NR	Thyroid C-Cell tumors in Fisher 344 Rat (M)
			Not Likely to Be Carcinogenic			
Cyfluthrin	68359-37-5	128831	to Humans	5/21/2002	NR	Not Applicable
			Not Likely To Be Carcinogenic			Not applicable; Established a PPARa mode of action for
Cyhalofop-butyl	122008-85-9	082583	To Humans	12/20/2007	NR	mouse liver tumors.
			Group DNot Classifiable as to			
Cyhalothrin	68085-85-8	128867	Human Carcinogenicity	8/25/1993	NR	Not Applicable
			Data Are Inadequate for an			
			Assessment of Human			
Cyhexatin	13121-70-5	101601	Carcinogenic Potential	4/7/2005	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Cymoxanil	57966-95-7	129106	to Humans	1/2/2003	NR	Not Applicable
			Group CPossible Human			
Cypermethrin	52315-07-8	109702	Carcinogen	9/27/1988	NR	Lung tumors in Alderly Park SPF Swiss mice (F)

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				DATE	METHOD	
			No. 171 d. T. B. C			
			Not Likely To Be Carcinogenic			
			To Humans at doses that do			
			not cause a mitogenic			Liver tumors in CD-1 mice (M & F); Established a non-
Cyproconazole	94361-06-5	128993	response in the liver	12/4/2007	NR	genotoxic, mitogenic mode of action for liver tumors.
			Not Likely to Be Carcinogenic			
Cyprodinil	121552-61-2	288202	to Humans	1/14/1998	NR	Not Applicable
						Kidney tumors in Wistar rats (M);
						Urinary bladder tumors in Wistar rats(F)
						Urinary bladder tumors & Histicocytic sarcomas in C57BL/6J
			Not Likely To Be Carcinogenic			mice (F); Established a cytotoxicity and regenerative
Cyprosulfamide	221667-31-8	877400	To Humans	2/29/2008	NR	proliferation mode of action for urinary bladder tumors.
			Group EEvidence of Non-			
Cyromazine	66215-27-8	121301	carcinogenicity for humans	1/6/1995	NR	Not Applicable
						Tumors at multiple sites (Cecum, Kidneys, Liver, Lung, Nose,
						Pancreas, Uterus, Vascular) in Fischer 344 rats (M & F);
			Group BProbable Human			B6C3F1 mice (M & F) Swiss mice (M & F); C57BL mice (F); CD-
Daminozide	1596-84-5	035101	Carcinogen	7/26/1991	Q1* = 8.7 E-3 (2/3)	1 mice (M & F) and Syrian Golden hamster (M)
			Not Likely to Be Carcinogenic			
Dantochlor (BCDMH)	118-52-5	028501	to Humans	8/14/2000	NR	Not Applicable
			Group DNot Classifiable as to			
Dazomet	533-74-4	035602	Human Carcinogenicity	12/7/1993	NR	Not Applicable
			Group DNot Classifiable as to			
DEET	134-62-3	080301	Human Carcinogenicity	1/4/1996	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Deltamethrin	52918-63-5	097805	to Humans	9/9/2003	NR	Not Applicable
			Group EEvidence of Non-			
Desmedipham	13684-56-5	104801	carcinogenicity for humans	11/20/1995	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Diazinon	333-41-5	057801	to Humans	6/17/1997	NR	Not Applicable
			Group DNot Classifiable as to			
Dicamba	1918-00-9	029801	Human Carcinogenicity	7/29/1996	NR	Not Applicable
			Group CPossible Human			Liver tumors in Fischer 344 rats (M &F)
Dichlobenil	1194-65-6	027401	Carcinogen	7/18/1995	RfD Approach	Liver tumors in Syrian Golden hamsters (M)

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				DATE	METHOD	
			Not Likely To Be Carcinogenic			
Dichlormid	37764-25-3	900497	To Humans	11/15/2005	NR	Not Applicable
			Group DNot Classifiable as to			
Dichlorobenzamide, 2,6-	2008-58-4	027402	Human Carcinogenicity	11/28/1995	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			Mononuclear cell leukemia in Fisher 344 rats (M)
Dichlorvos	62-73-7	084001	Carcinogenic Potential	3/1/2000	NR	Forestomach tumors in B63F1 mice(F)
						Thyroid (F) and Liver (F & M) & Leydig cell (M) tumors in
			Likely to be Carcinogenic to			Wistar rats
Diclofop-methyl	51338-27-3	110902	Humans	5/24/2000	Q1* = 7.36 E-2 (3/4)	Liver tumors in B6C3F1 mice (M & F)
			Suggestive Evidence Of			
Dicloran	99-30-9	031301	Carcinogenic Potential	09/05/2006	NR	Testes tumors in Wistar Rat (M)
			Not Likely to Be Carcinogenic			
Diclosulam	145701-21-9	129122	to Humans	11/9/1999	NR	Not Applicable
			Group CPossible Human			
Dicofol	115-32-2	010501	Carcinogen	6/24/1992	RfD Approach	Liver tumors in B6C3F1 mice (M)
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Dicrotophos	141-66-2	035201	Carcinogenic Potential	10/18/1999	NR	Thyroid tumors in C57BL/10 J CD-1 Alpk mice (M & F)
Didecyl dimethyl ammonium			Group EEvidence of Non-			
chloride (DDAC)	7173-51-5	069149	carcinogenicity for Humans	4/11/2000	NR	Not Applicable
			Group CPossible Human			
Difenoconazole	119446-68-3	128847	Carcinogen	7/27/1994	MOE Approach	Liver tumors in CD-1 mice (M & F)
			Group EEvidence of Non-			
Difenzoquat methyl sulfate	43222-48-6	106401	carcinogenicity for humans	5/24/1994	NR	Not Applicable
			Group EEvidence of Non-			
Diflubenzuron	35367-38-5	108201	carcinogenicity for humans	4/27/1995	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Diflufenzopyr Sodiium	109293-98-3	005107	to Humans	10/6/1998	NR	Not Applicable
			Group CPossible Human			
Dimethenamid	87674-68-8	129051	Carcinogen	9/15/1995	RfD Approach	Liver tumors in Sprague-Dawley rats (M)
			Group CPossible Human			
Dimethipin	55290-64-7	118901	Carcinogen	1/5/1990	NR	Lung tumors in CD-1 mice (M)
			Group CPossible Human			Hemolymphoreticular tumors in B6C3F1 mice (M)
Dimethoate	60-51-5	035001	Carcinogen	3/26/2002	RfD Approach	Spleen, Skin, Lymphnode tumors in Wistar rats (M)

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			Not Likely to Be Carcinogenic			
Dimethomorph	110488-70-5	268800	to Humans	5/13/1998	NR	Not Applicable
			Suggestive Evidence of			
Dimethoxane	828-00-2	001001	Carcinogenic Potential	12/21/2000	NR	Not Applicable
			Group DNot Classifiable as to			
Dimethyl ether	115-10-6	900382	Human Carcinogenicity	1/12/1994	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Dimethylhydantoin	16079-88-2	006315	to Humans	8/28/2000	NR	Not Applicable
			Group EEvidence of Non-			
Dinocap	39300-45-3	036001	carcinogenicity for Humans	6/22/1994	NR	Not Applicable
			Group CPossible Human			
Dinoseb	88-85-7	037505	Carcinogen	6/19/1986	NR	Liver tumors in CD-1 mice (F)
			Not Likely to Be Carcinogenic			
Dinotefuran	165252-70-0	044312	to Humans	3/5/2004	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Diphenylamine	122-39-4	038501	to Humans	4/1/1997	NR	Not Applicable
			Group EEvidence of Non-			
Diquat dibromide	85-00-7	032201	carcinogenicity for Humans	5/12/1994	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Disodium methanearsonate	144-21-8	013802	to Humans	7/26/2000	NR	Not Applicable
			Group EEvidence of Non-			
Disulfoton	298-04-4	032501	carcinogenicity for Humans	4/21/1997	NR	Not Applicable
			Suggestive Evidence of			
Dithianon	3347-22-6	099201	Carcinogenic Potential	2/23/2006	NR	Kidney tumors in Sprague Dawley rats (F)
			Group EEvidence of Non-			
Dithiopyr (MON 7200)	97886-45-8	128994	carcinogenicity for Humans	5/29/1997	NR	Not Applicable
						Urinary bladder tumors in Wistar rats (M&F)
						Kidney tumors in Wistar rats (M)
Diuron	330-54-1	035505	Known/Likely	5/8/1997	Q1* = 1.91 E-2 (3/4)	Mammary tumors in NMRI mice (F)
			Not Likely To Be Carcinogenic			
Dodine	2439-10-3	044301	To Humans	1/24/2008	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Ecolyst		069089	to Humans	10/19/1999	NR	Not Applicable
Emamectin Benzoate (Deoxy			Not Likely to Be Carcinogenic			
Avermectin)	137512-74-4	122806	to Humans	3/19/1998	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Endosulfan	115-29-7	079401	to Humans	1/31/2000	NR	Not Applicable

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			Not Likely To Be Carcinogenic			
Endothall	145-73-3	038901	To Humans	10/23/2008	NR	Not Applicable
						Liver tumors in C57BL/6N CrlBr mice (M & F)
	106325-08-0,		Likely to be Carcinogenic to			Liver and Adrenal (M & F) and ovarian (F) tumors in Wistar
Epoxiconazole	133855-98-8	123909	Humans	1/24/2001	Q1* = 3.04E-2 (3/4)	rats
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Esbiothrin	28434-00-6	004007	Carcinogenic Potential	12/2/2003	NR	Kidney tumors in Sprague-Dawley Crl-CD-SD(BR) rats (M)
			Group EEvidence of Non-			
Esfenvalerate	66230-04-4	109303	carcinogenicity for Humans	7/1/1996	NR	Not Applicable
			Suggestive Evidence of			
Ethaboxam	162650-77-3	090205	Carcinogenic Potential	3/23/2006	NR	Leydig cell tumors in Sprague Dawley rats (M)
			Group CPossible Human			Mammary, Urinary bladder & Kidney tumors in Fischer 344
Ethalfluralin	55283-68-6	113101	Carcinogen	9/14/1994	Q1* = 8.9 E-2 (3/4)	rats (M & F)
			Group DNot Classifiable as to			
Ethephon	16672-87-0	099801	Human Carcinogenicity	8/15/1994	NR	Not Applicable
			Group EEvidence of Non-			
Ethion	563-12-2	058401	carcinogenicity for humans	1/26/1994	NR	Not Applicable
			Suggestive Evidence Of			
Ethiprole	181587-01-9	005550	Carcinogenic Potential	10/28/2010	NR	Thyroid Follicular Cell Wistar Rat (M); Liver C57BL/6J (F)
			Group DNot Classifiable as to			
Ethofumesate	26225-79-6	110601	Human Carcinogenicity	2/24/1994	NR	Not Applicable
5.1	10101 10 1	0.4.4.0.4	Likely to be Carcinogenic to	10/7/1000	01* 001 5 0 (0 (1)	Adrenal tumors in Sprague-Dawley rats (M)
Ethoprop	13194-48-4	041101	Humans	10/7/1998	Q1* = 2.81 E-2 (3/4)	Thyroid tumors in Sprague-Dawley & Fischer 344 rats (M)
Ethyl dipropylthiocarbamate	750.04.4	041404	Not Likely to Be Carcinogenic	0/24/4000	ND	Not Applicable
(EPTC)	759-94-4	041401	to Humans	8/31/1999	NR	Not Applicable
Ethydono thiouson (ETU)	06.45.7	C0001C	Group BProbable Human	7/7/1000	01* - 001 5 3 /3 /4	Thyroid tumors in Fischer 344 rats (M & F)
Ethylene thiourea (ETU)	96-45-7	600016	Carcinogen	7/7/1999	Q1* = 6.01 E-2 (3/4)	Pituitary and Liver tumors in B6C3F1 mice (M & F)
			Not likely to be carcinogenic to			
			,			Thursid tumors in Spraguo Daudou rate (MA 9 5). Fetablished a
			humans at doses that do not			Thyroid tumors in Sprague-Dawley rats (M & F); Established a
Ctofonarov	00044 07 1	120005	alter rat thyroid hormone	2/9/2006	ND	thyroid hormone disruption mode of action for thyroid
Etofenprox	80844-07-1	128965	homeostasis.	2/8/2006	NR	tumors.

1		CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
			DATE	METHOD	
		Not Likely to Be Carcinogenic			
153233-91-1	107091		8/7/2003	NR	Not Applicable
		Not Likely to Be Carcinogenic			
131807-57-3	113202	to Humans	4/16/2003	NR	Not Applicable
		Not Likely to Be Carcinogenic			
161326-34-7	046679	to Humans	7/12/2002	NR	Not Applicable
		Group EEvidence of Non-			
22224-92-6	100601	carcinogenicity for Humans	11/23/1993	NR	Not Applicable
		Not Likely to Be Carcinogenic			
60168-88-9	206600	to Humans	9/5/2001	NR	Not Applicable
		Not Likely To Be Carcinogenic			
120928-09-8	044501	To Humans	5/15/2007	NR	Not Applicable
		Group CPossible Human			Thyroid tumors in Sprague-Dawley rats (M)
114369-43-6	129011	Carcinogen	4/15/1996	Q1* = 3.59 E-3 (3/4)	Liver tumors in CD-1 mice (M & F)
				, , ,	
		Group EEvidence of Non-			
13356-08-6	104601	carcinogenicity for Humans	3/2/1993	NR	Not Applicable
		Not Likely to Be Carcinogenic			
126833-17-8	090209	to Humans	3/4/1999	NR	Not Applicable
		Group EEvidence of Non-			
122-14-5	105901	carcinogenicity for Humans	7/13/1993	NR	Not Applicable
		Suggestive Evidence Of			
		Carcinogenic Potential			
		Suggestive Evidence Of			
9015-56-9	128701	Carcinogenic Potential	7/29/2013	RfD Approach	Liver tumors in NMRI Mouse (M); N/A
		Likely to be Carcinogenic to			
72490-01-8	125301	Humans	12/22/97	Q1* = 7.00 E-2 (3/4)	Lung tumors & Harderian gland tumors in CD-1 mice (M)
		Not Likely to be Carcinogenic			
39515-41-8	127901	to Humans	12/22/2003	NR	Not Applicable
		Suggestive Evidence Of			Pancreas Rat Sprague-Dawley (M) Pancreas Rat (M) Sprague-
67306-00-7	012305		6/9/2009	NR	Dawley; No
67564-91-4	121402	,	10/19/2005	NR	Not Applicable
			, ,, ,,		
134098-61-6	129131	· -	2/19/1997	NR	Not Applicable
			,,,	 ``	FF 1555.5
55-38-9	053301		3/11/1996	NR	Not Applicable
33 33 3	333301		5, 11, 1550	1	
51630-58.1	100301		2/10/2003	NR	Not Applicable
	161326-34-7 22224-92-6 60168-88-9 120928-09-8 114369-43-6 13356-08-6 126833-17-8 122-14-5 9015-56-9 72490-01-8 39515-41-8	131807-57-3 113202 161326-34-7 046679 22224-92-6 100601 60168-88-9 206600 120928-09-8 044501 114369-43-6 129011 13356-08-6 104601 126833-17-8 090209 122-14-5 105901 9015-56-9 128701 72490-01-8 125301 39515-41-8 127901 67306-00-7 012305 67564-91-4 121402 134098-61-6 129131 55-38-9 053301	Not Likely to Be Carcinogenic to Humans Not Likely to Be Carcinogenic to Humans Not Likely to Be Carcinogenic to Humans Group EEvidence of Non-carcinogenicity for Humans Not Likely to Be Carcinogenic to Humans Not Likely To Be Carcinogenic to Humans Not Likely To Be Carcinogenic To Humans 120928-09-8	Not Likely to Be Carcinogenic to Humans	131807-57-3 113202

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Ferbam	14484-64-1	034801	See Ziram	4/6/2000	NR	
			Group CPossible Human			
Fipronil	120068-37-3	129121	Carcinogen	7/18/1995	RfD Approach	Thyroid tumors in CD rats (M & F)
			Not Likely To Be Carcinogenic			
Flazasulfuron	104040-78-0	119011	To Humans	11/16/2005	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			Nasolacrimal duct tumors in Wistar rats (F)
			Sufficient to Assess Human			Lung tumors in CD-1 mice (M & F); Established a mitogenic
Flonicamid	158062-67-0	128016	Carcinogenic Potential	2/24/2005	NR	mode of action for mouse lung tumors.
			Not Likely To Be Carcinogenic			
Florasulam	145701-23-1	129108	To Humans	5/31/2007	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Fluazifop-P-Butyl	79241-46-6	122809	To Humans	9/19/2008	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			Thyroid tumors in Sprague-Dawley (M)
Fluazinam	79622-59-6	129098	Carcinogenic Potential	3/29/2001	NR	Liver tumors in CD-1 mice (M)
			Not Likely To Be Carcinogenic			
Flubendiamide	272451-65-7	027602	To Humans	4/3/2008	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Flucarbazone-sodium	181274-17-9	114009	to Humans	7/19/2000	NR	Not Applicable
			Group DNot Classifiable as to			
Fludioxonil	131341-86-1	071503	Human Carcinogenicity	9/19/1996	NR	Not Applicable
			Suggestive Evidence Of			
Fluensulfone	318290-98-1	050410	Carcinogenic Potential	05/07/2014	RfD Approach	Lung tumors in CD-1 Mouse (F)
			Not Likely to Be Carcinogenic			
Flufenacet (Thiaflumide)	142459-58-3	121903	to Humans	7/16/1997	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Flufenoxuron	101463-69-8	108203	To Humans	8/15/2006	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Flufenpyr-ethyl	188489-07-8	108853	to Humans	6/8/2003	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Flumethrin	69770-45-2	036007	To Humans	03/06/12	NR	Not Applicable
			Nat Libely Ta Da Causin and i			
Floor store line	62024 70 2	122004	Not Likely To Be Carcinogenic	C /24 /2007	ND	Net Applicable
Flumetralin	62924-70-3	123001	To Humans	6/21/2007	NR	Not Applicable

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			Group EEvidence of Non-			
Flumetsulam (XRD-498)	98967-40-9	129016	carcinogenicity for Humans	3/24/1993	NR	Not Applicable
			Group EEvidence of Non-			
Flumiclorac pentyl	87546-18-7	128724	carcinogenicity for Humans	9/7/1994	NR	Not Applicable
	103361-09-7,		Not Likely to Be Carcinogenic			
Flumioxazin	141490-50-8	129034	to Humans	2/22/2001	NR	Not Applicable
			Group CPossible Human			
Fluometuron	2164-17-2	035503	Carcinogen	8/28/1996	Q1* = 1.80 E-2 (3/4)	Lung tumors (M) & Lymphocytic lymphomas (F) in CD-1 mice
			Not Likely to Be Carcinogenic			Liver tumors in C57Bl/6 mice (M & F); Established a mitogenic
Fluopicolide	239110-15-7	027412	to Humans	12/12/2006	RfD Approach	mode of action for liver tumors in mice.
Fluopyram	658066-35-4	080302	Not Likely To Be Carcinogenic To Humans	05/08/2014	NR	Thyroid Follicular Cell C57BL/6J Mouse (M); Liver Wistar Rat (F); This classification was based on convincing evidence that non-genotoxic modes of action (MOA) for liver tumors in rats and thyroid tumors in mice have been established and that the carcinogenic effects have been demonstrated as a result of a mode of action dependent on activation of the CAR/PXR receptors.
			Not Likely To Be Carcinogenic			
Fluoxastrobin	361377-29-9	028869	To Humans	1/24/2005	NR	Not Applicable
			Not likely to be Carcinogenic			
Flupyradifurone	951659-40-8	122304	to Humans	8/5/2014	NR	Not Applicable
Fluridone	59756-60-4	112900	Group EEvidence of Non-carcinogenicity for Humans	7/1/1985	NR	Not Applicable
	04.406.27.2	420000	Not Likely To Be Carcinogenic	6/26/2002	ND	ALL A COPPOSITO
Fluroxypyr	81406-37-3	128968	To Humans	6/26/2003	NR	Not Applicable
Fluroxypyr acid (see also PC	60277.04.7	120050	Not Likely to Be Carcinogenic	c /2c /2002	ND	Niet Auguliechie
Code 128968)	69377-81-7	128959	to Humans	6/26/2003	NR	Not Applicable
Element de l	FC43F 04 3	125701	Not Likely To Be Carcinogenic	0/20/2005	ND	Niet Auguliechie
Flurprimidol	56425-91-3	125701	To Humans	9/29/2005	NR	Not Applicable
Fluthia act wasthad	117227 10 6	100002	Likely to be Carcinogenic to	11/20/1000	01* - 2.07 F 1 /2 /4	Pancreatic tumors in Sprague-Dawley rats (M)
Fluthiacet methyl	117337-19-6	108803	Humans	11/20/1998	Q1* = 2.07 E-1 (3/4)	Liver tumors in CD-1 mice (M & F)
	CC222 0C 5	120075	Group EEvidence of Non-	C/0/1004	ND	Not Appliable
Flutolanil	66332-96-5	128975	carcinogenicity for Humans	6/9/1994	NR	Not Applicable
Flutriafol	76674 31 0	120040	Not Likely To Be Carcinogenic	6/1/2000	ND	Not Applicable
Flutriafol	76674-21-0	128940	To Humans	6/1/2009	NR	Not Applicable

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			Note that To Building			MC 1 - D 11 - (04.0 5) MC 1 - D 1 T 1 - 1 I 5 II 1 - D 1 I
			Not Likely To Be Carcinogenic			Wistar Rat Liver (M & F); Wistar Rat Thyroid Follicular Cell
	007204 24 2	420000	To Humans: below a defined	6 10 12011	D(D A	(M); Established a mitogenic mode of action for liver tumors
Fluxapyroxad	907204-31-3	138009	dose range	6/9/2011	RfD Approach	and non-genotoxic mode of action for thyroid tumors.
			Not likely to be carcinogenic to			Duodenum tumors in CD-1 mice (M & F) and
			humans at doses that do not			B6C3F1 mice (M & F)
						Skin tumors in B6C3F1 mice (M); Cytotoxicity and
Foliat	133-07-3	091601	cause an irritation response in	10/12/2010	DfD Annroach	
Folpet	133-07-3	081601	the mucosal epithelium	10/13/2010	RfD Approach	Regeneration Proliferation
Farmanafara	100721 70 0	122002	Not Likely to Be Carcinogenic	11/2/2005	ND	Liver tumors in CD-1 mice (M & F); Established a PPARa mode
Fomesafen	108731-70-0	123802	to Humans	11/3/2005	NR	of action for liver tumors
Farafaa	044 22 0	044704	Group EEvidence of Non-	11/10/1002	ND	Niet Applicable
Fonofos	944-22-9	041701	carcinogenicity for Humans	11/10/1993	NR	Not Applicable
Fanala of an one of	C0457 C0 0	120010	Not Likely To Be Carcinogenic	2/44/2000	ND	Niet Applicable
Forchlorfenuron	68157-60-8	128819	To Humans	3/11/2008	NR	Not Applicable
F 16	472450 57 4	422020	Not Likely to Be Carcinogenic	0/40/2004	ND	No. A. P. H.
Formasulfuron	173159-57-4	122020	to Humans	9/19/2001	NR	Not Applicable
E	22422 52.0	007204	Group EEvidence of Non-	E /20 /4 00 C	ND	No. A. P. H.
Formetanate hydrochloride	23422-53-9	097301	carcinogenicity for Humans	5/20/1996	NR	Not Applicable
E	204.40.24.0	422204	Not Likely To Be Carcinogenic	4 /22 /4 000	ND	No. A. P. H.
Fosetyl-Al	39148-24-8	123301	To Humans	4/22/1999	NR	Not Applicable
Forther one	00006 44 3	420022	Not Likely to Be Carcinogenic	0 /4 5 /2002	ND	No. A. P. H.
Fosthiazate	98886-44-3	129022	to Humans	9/15/2003	NR	Not Applicable
	00.04.4	0.40004	Likely To Be Carcinogenic To	00/05/0044	04* 040 740 50	
Furfural	98-01-1	043301	Humans	02/06/2014	Q1* = 3.49 X 10 E-2	Liver tumors in F344/N Rat (M); Liver B6C3F1 Mouse (M & F)
E C LALLE	00.00.0	642200	Likely To Be Carcinogenic To	02/05/2014	04* 4 24 7 40 5 4	No. 11
Furfuryl Alcohol	98-00-0	643300	Humans	02/06/2014	Q1* = 1.31 X 10 E-1	Nasal tumors in F344/N Rat (M); Kidney B6C3F1 Mouse (M)
F (NAON 42000)	424776 22 0	044506	Likely to be Carcinogenic to	40/45/4000	04* 27452/2/4	Tumors at multiple sites (Liver, Lung, Stomach, Testes) in
Furilazole (MON 13900)	121776-33-8	911596	Humans	10/15/1999	Q1* = 2.74 E-2 (3/4)	Sprague-Dawley rats (M&F) & CD-1 mice (M & F)
	50550 05 0	122501	Group BProbable Human	7/2/4005	0.4 * 0.00 5.0 (0.40)	
Furmecyclox	60568-05-0	122601	Carcinogen	7/3/1985	Q1* = 2.98 E-2 (2/3)	Liver & Urothelial tumors in Sprague-Dawley rats (M & F)
			Not Likely to Be Carcinogenic	21.1222		
Gamma Cyhalothrin	76703-62-3	128807	to Humans	3/1/2004	NR	Not Applicable
	1.405.44.0	22525	Not Likely To Be Carcinogenic	2 /24 /2007		
Gentamicin Sulfate	1405-41-0	006325	To Humans	3/21/2007	NR	Not Applicable
	77400 00 5	120056	Not Likely to Be Carcinogenic	5 /4 7 /4 00 0		
Glufosinate-ammonium	77182-82-2	128850	to Humans	5/17/1999	NR	Not Applicable
	111 00 0	0.40654	Not Likely to Be Carcinogenic	E /4 0 /0 5 5 5		
Glutaraldehyde	111-30-8	043901	to Humans	5/18/2006	NR	Not applicable

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			Group EEvidence of Non-			
Glyphosate	1071-83-6	417300	carcinogenicity for Humans	10/30/1991	NR	Not Applicable
Halosulfuron methyl (MON			Not Likely to Be Carcinogenic			
1200)	100784-20-1	128721	to Humans	2/26/1998	NR	Not Applicable
1200)	100704 20 1	120721	Group BProbable Human	2/20/1330	IVIX	Not Applicable
Haloxyfop-methyl	690806-40-2	125201	Carcinogen	9/18/1989	Q1* = 7.39 E+0 (2/3)	Liver tumors in B6C3F1 mice (M & F)
rialoxyrop-inetriyi	030800-40-2	123201	Group CPossible Human	3/18/1383	Q1 = 7.33 L10 (2/3)	Liver tulliors in Bocsi I finice (W. & T)
Havasanazala	70092 71 4	120025	Carcinogen	1/21/1999	Q1* = 1.6 E-2 (3/4)	Leydig cell tumors in Wistar (Alpk:APfSD) rats (M)
Hexaconazole	79983-71-4	128925	Carcinogen	1/21/1999	Q1' = 1.6 E-2 (3/4)	Leydig cell tumors in Wistar (Alpk:APISD) rats (IVI)
						One manage 0 Tempore tours are in F244 mate (MA 0 F)
		224424				Oral mucosa & Tongue tumors in F344 rats (M & F)
		021101;	Likely to be Carcinogenic to			Intestinal (duodenum, jejunum, and ileum) tumors in B6C3F1
Hexavalent Chromium (CrVI)	18540-29-9	068302	Humans	07/01/09	Q1* = 7.91 E-1 (3/4)	mice (M & F); Established a mutagenic mode of action.
			Group DNot Classifiable as to			
Hexazinone	51235-04-2	107201	Human Carcinogenicity	7/27/1994	NR	Not Applicable
			Likely To Be Carcinogenic To			Liver tumors in B6C3F1 mice (F) Mammary Gland tumors
Hexythiazox	78587-05-0	128849	Humans	9/2/09	RfD Approach	(fibroadenomas) in Fisher 344 Rats (M); Not Applicable
			Not Likely to Be Carcinogenic			
HOE107892	135590-91-9	811800	to Humans	11/24/1998	NR	Not Applicable
			Group CPossible Human			
Hydramethylnon	67485-29-4	118401	Carcinogen	3/28/1991	RfD Approach	Lung tumors in CD-1 mice (F)
			Group CPossible Human			
Hydrogen cyanamide	420-04-2	014002	Carcinogen	9/15/1993	Q1* = 6.64 E-2 (3/4)	Ovarian tumors in CRL:CD-1 (ICR)BR mice (F)
			Group DNot Classifiable as to			
Hydroprene	41096-46-2	486300	Human Carcinogenicity	6/8/1995	NR	Not Applicable
ya. op. ene	12030 10 2	1.00000	Likely to be Carcinogenic to	0,0,1333		Liver & Thyroid tumors in Wistar rats (M)
lmazalil	35554-44-0	111901	Humans	12/7/1999	Q1* = 6.11 E-2 (3/4)	Liver tumors in Swiss albino mice (M)
inazani	33334 44 0	111301	Trainans	12/1/1333	Q1 - 0.11 L 2 (3/4)	Liver cultions in Swiss dibino finee (191)
			Group DNot Classifiable as to			
Imazamethabenz	81405-85-8	128842	Human Carcinogenicity		NR	Not Applicable
imazamethabenz	01403-03-0	120042		6/11/1987	INU	Not Applicable
	11111111111	120171	Not Likely to Be Carcinogenic	2/27/4007	ND	Nick Assistantia
Imazamox	114311-32-9	129171	to Humans	2/27/1997	NR	Not Applicable
l			Group EEvidence of Non-			
Imazapic	81334-60-3	129041	carcinogenicity for Humans	9/27/1995	NR	Not Applicable

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			Group EEvidence of Non-			
Imazapyr	81334-34-1	128821	carcinogenicity for Humans	10/5/1995	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Imazaquin Acid	81335-37-7	128848	To Humans	10/31/2005	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Imazethapyr	81335-77-5	128922	to Humans	1/31/2002	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Imazosulfuron	122548-33-8	118602	To Humans	3/13/2009	NR	Not Applicable
			Group EEvidence of Non-			
Imidacloprid	105827-78-9	129099	carcinogenicity for Humans	11/10/1993	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Indaziflam	950782-86-2	080818	To Humans	4/22/2010	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Indoxacarb	173584-44-6	067710	to Humans	7/17/2000	NR	Not Applicable
			Not Likely to be Carcinogenic			
			to Humans at doses that do			Thyroid tumors in Fischer 344 rats (M)
			not alter rat thyroid hormone			Thyroid tumors in B6C3F1 mice (M); Established a thyroid
Iodomethane	74-88-4	000011	homeostasis	11/10/2005	RfD Approach	hormonal mode of action for thyroid tumors.
			Not Likely to Be Carcinogenic			
Iodosulfuran	144550-36-7	122021	to Humans	1/5/2004	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Ipoconazole	125225-28-7	125618	To Humans	5/28/2008	NR	Not Applicable
			Likely to be Carcinogenic to			Liver (M & F) & Ovarian luteomas (F) in CD-1 mice
Iprodione	36734-19-7	109801	Humans	2/26/1998	Q1* = 4.39 E-2 (3/4)	Leydig cell tumors in Crl:CD(SD)BR rats (M)
			Likely to be Carcinogenic to			Tumors at multiple sites (Osteosarcomas, Urinary bladder,
Iprovalicarb	140923-17-7	098359	Humans	4/11/2002	Q1* = 4.47E-4 (3/4)	Uterus, Thyroid) in Wistar (Hsd/WIN:WU) rats (M & F)
			Group EEvidence of Non-			
Isofenphos	25311-71-1	109401	carcinogenicity for Humans	1/13/1998	NR	Not Applicable
			Group CPossible Human			
Isophorone	78-59-1	047401	Carcinogen	9/2/1999	Q1* = 6.08 E-4 (3/4)	Preputial gland tumors in F344/N rats (M)
			Likely To Be Carcinogenic To			Wistar Rat Thyroid Follicular Cell (M); Wistar Rat Liver and
Isopyrazam	881685-58-1	129222	Humans	2/2/2011	Q1* = 6.29 E-3 (3/4)	Uterus (F)
			Suggestive Evidence of			
Isoxaben	82558-50-7	125851	Carcinogenic Potential	10/7/2008	NR	Liver tumors in B6C3F1 mice (M & F)
			Not Likely to Be Carcinogenic			
Isoxadifen-ethyl	163520-33-0	823000	to Humans	1/29/2001	NR	Not Applicable

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
			Libebate he Couring against	DATE	METHOD	Liver (NA 9 E) 9 Throughd (NA) towards in Colo (D/CD) DD VAE(Dlos
In a self and a	4 4 4 4 4 2 2 2 0 0	422000	Likely to be Carcinogenic to	00/20/07	04* 44452(2/4)	Liver (M & F) & Thyroid (M) tumors in CrL:CD(SD) BR VAF/Plus
Isoxaflutole	141112-29-0	123000	Humans	09/30/97	Q1* = 1.14 E-2 (3/4)	rats; Liver tumors in CD-1 mice (M & F)
			Not Likely To Be Carcinogenic	2 / 1 = / 2 2 2 =		
Kasugamycin	6980-18-3	230001	To Humans	8/17/2005	NR	Not Applicable
			Group DNot Classifiable as to	_ / /		
Kathon 886	55965-84-9	107106	Human Carcinogenicity	5/18/1995	MOE Approach	Not Applicable
			Not Likely to Be Carcinogenic	. / . /		
KBR 3023	119515-38-7	070705	to Humans	6/9/1999	NR	Not Applicable
			Likely to be Carcinogenic to			
Kresoxim-methyl	143390-89-0	129111	Humans	8/19/1999	Q1* = 2.90 E-3 (3/4)	Liver tumors in Wistar rats (M & F)
			Likely to be Carcinogenic in			
			Humans at High Doses. Not			Liver neoplastic nodules in Sprague-Dawley rats (M & F)
			Likely to be Carcinogenic to			Liver tumors in CD-1 mice (M &F); Established a PPARa mode
Lactofen	77501-63-4	128888	Humans at Low Doses	10/17/2006	MOE approach	of action for liver tumors
			Group DNot classifiable as to			
Lambda cyhalothrin	91465-08-6	128897	Human Carcinogenicity	9/12/2002	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Lindane	58-89-9	009001	Carcinogenic Potential	11/29/2001	NR	Lung tumors in CD-1, Pseudoagouti, & Agouti mice (F)
			Group CPossible Human			Testicular tumors in CD rats (M)
Linuron	330-55-2	035506	Carcinogen	11/20/2001	NR	Liver tumors in CD-1 mice (M & F)
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			Liver, Oral palate & Nosetumors in Fischer 344 rats (M & F)
Malathion	121-75-5	057701	Carcinogenic Potential	4/28/2000	NR	Liver tumors in B6C3F1 mice (M & F)
			Crown F. Fuidones of Non			
Na la ia la caluacia a	422.22.4	054504	Group EEvidence of Non-	11/10/1002	ND	Niet Augeliechte
Maleic hydrazide	123-33-1	051501	carcinogenicity for Humans	11/10/1993	NR Q1* = 6.01 E-2 (3/4)	Not Applicable
N 4 - 11 - 2 - 2 - 1	0010 01 7	04.450.4	Group BProbable Human	7/7/4000	\ \ \ \ \ \ \	The maid town are in Calcop(DD) mate (MA 9 E)
Mancozeb	8018-01-7	014504	Carcinogen	7/7/1999	Based on ETU	Thyroid tumors in Crl:CD(BR) rats (M & F)
Mandingananid	274726 62 2	036603	Not Likely To Be Carcinogenic	1 /21 /2000	ND	Not Applicable
Mandipropamid	374726-62-2	036602	To Humans	1/21/2009	NR	Not Applicable
N.A la	42427.20.2	04.4505	Group BProbable Human	7/7/4000	Q1* = 6.01 E-2 (3/4)	Liver tumors in B6C3F1 mice (M & F) No acceptable study in
Maneb	12427-38-2	014505	Carcinogen	7/7/1999	Based on ETU	rats
MB46513 (photodegradate of	120067 00 5	500550	Not Likely to Be Carcinogenic	42/6/2000	ND	N. A. A. B. H.
Fipronil)	120067-83-6	600050	to Humans	12/6/2000	NR	Not Applicable

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT DATE	QUANTIFICATION METHOD	TUMOR SITES/ STRAIN/ SPECIES/ SEX
			Not Likely to Be Carcinogenic			
MCPA + Salts	94-74-6	030501	to Humans	10/29/2003	NR	Not Applicable
			Not Likely To Be Carcinogenic			
MCPB Acid	94-81-5	019201	To Humans	10/1/2008	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Mecoprop-P	16484-77-8	129046	Carcinogenic Potential	3/13/2003	NR	Liver tumors in B6C3F1/CrlBR mice (F)
			Not Likely to Be Carcinogenic			
Mefenoxam	70630-17-0	113502	to Humans	5/17/2000	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Mefluidide	53780-34-0	114001	To Humans	5/30/2007	NR	Not Applicable
			Group DNot Classifiable as to			
Melamine	108-78-1	777201	Human Carcinogenicity	7/21/1993	NR	Not Applicable
			Likely to be Carcinogenic to			Liver tumors in Fisher 344 rats (F)
Mepanipyrim	110235-47-7	288203	Humans	4/20/2004	Q1* = 1.35 E-2 (3/4)	Liver tumors in B6C3F1 mice (M & F)
			Not Likely To Be Carcinogenic			
Mepiquat Chloride	24307-26-4	109101	To Humans	2/19/2003	NR	Not Applicable
Meptyldinocap (DE-126/Dinocap			Group EEvidence Of Non-			
II)	131-72-6	036000	Carcinogenicity For Humans	3/17/2009	NR	Not applicable
			Group CPossible Human			
Mercaptobenzothiazole, 2-	149-30-4	051701	Carcinogen	11/19/1992	RfD Approach	Adrenal (M & F) and Pituitary (F) tumors in F344/N rats
			Not Likely to Be Carcinogenic			
Mesosulfuron methyl	208465-21-8	122009	to Humans	3/4/2004	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Mesotrione	104206-82-8	122990	to Humans	4/12/2001	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Metaflumizone	139968-49-3	281250	To Humans	1/24/2006	NR	Not Applicable
			Group EEvidence of Non-			
Metalaxyl	57837-19-1	113501	carcinogenicity for Humans	4/20/1994	NR	Not Applicable
			Suggestive Evidence of			Liver tumors in Sprague Dawley rats (F)
Metaldehyde	108-62-3	053001	Carcinogenic Potential	6/23/2005	NR	Liver tumors in CD-1 mice (M & F)
·			Likely To Be Carcinogenic To			Malignant angiosarcomas (by both pair-wise & trend analysis)
Metam sodium	137-42-8	039003	Humans	5/14/2009	Q1* = 1.98 E-1(3/4)	CD-1 Mouse (M & F)
			Not Likely to Be Carcinogenic			Liver tumors in CD-1 mice (M & F); Established a mitogenic
Metconazole	125116-23-6	125619	to Humans	4/14/2006	NR	mode of action for liver tumors in mice

Motthamidophos 10265-92-6 101201 1014 101	CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
Methidathion 10265-92-6 101201 to Humans Group C-Possible Human Group C-Possible Human (Group C-Possible Human Group C-Possible Human C-Rotrop C-Possible Fort C-Pos					DATE	METHOD	
Methidathion 950-37-8 100301 Group C-Possible Human 2/19/1988 NR Liver tumors in CD-1 mice (M)				·			
Methidathion 950-37-8 100301 Carcinogen 2/19/1988 NR Liver tumors in CD-1 mice (M) Methiocarb 2032-65-7 100501 Group D-Not Classifiable as to Human Carcinogenicity of Humans 3/2/1993 RTD Approach Not Applicable Methomyl 16752-77-5 909301 Corput E-Vidence of Non-carcinogenicity for Humans Not Likely to Be Carcinogenic to Humans NR Not Applicable Methyl promide 74-83-9 053201 NR Not Applicable Methyl isothiocyanate 6317-18-6 068103 MITC. 4/30/2009 NR Not Applicable Methyl parathion 298-00-0 053201 NOT Likely to Be Carcinogenic to Humans 4/30/2009 NR Not Applicable Metriam 9006-42-2 014601 NOT Likely to Be Carcinogenic to Humans 1/7/1999 NR Not Applicable Metriam 240494-70-6 109709 Probable Human and Carcinogenic to Humans at doses that do not result in a mitogenic response. 7/26/2007 NR Not Applicable Metriam 51218-45-2 108801 Group C-Possible Human Carcinogenic to Human Carcinogenic to Huma	Methamidophos	10265-92-6	101201		02/12/1998	NR	Not Applicable
Methiocarb 2032-65-7 100501 Human Carcinogenicity Group E-Vidence of Non-carcinogenicity 16752-77-5 090201 Carcinogenicity 16752-77-5 090201 Carcinogenicity 10752-1996 NR Not Applicable Not Likely to Be Carcinogenicity NR Not Applicable Not Applicable Not Likely to Be Carcinogenicity NR Not Applicable Not Applicable Not Likely to Be Carcinogenicity NR Not Applicable Not Applicable NR Not Applicable NR Not Applicable NR Not Applicable NR NR NR NR NR NR NR N				Group CPossible Human			
Methological Meth	Methidathion	950-37-8	100301	Carcinogen	2/19/1988	NR	Liver tumors in CD-1 mice (M)
Methological Meth							
Methomyl 16752-77-5 090301 Group E-Evidence of Non- carcinogenic to Humans Not Likely to Be Carcinogenic to Humans 1/16/1994 NR Not Applicable Not Applicable Not Likely to Be Carcinogenic to Humans 1/16/1994 NR Not Applicable Not Applicable Not Applicable Not Applicable Not Likely To Be Carcinogenic to Humans 1/16/1994 NR Not Applicable				· ·			
Methomyl 16752-77-5 09301 carcinogenicity for Humans Not Likely to Be Carcinogenic to Humans 10/25/1996 NR Not Applicable Methyl bromide 161050-58-4 121027 Not Likely To Be Carcinogenic To Humans 7/1/1999 NR Not Applicable Methyl bromide 74-83-9 053201 To Humans 06/20/2001 NR Not Applicable Methyl isothiocyanate 6317-18-6 068103 MITC. 4/30/2009 NR Not Applicable Methyl parathion 298-00-0 053501 Not Likely to Be Carcinogenic to Humans 12/1/1997 NR Not Applicable Metiram 906-42-2 014601 Carcinogenic to Humans 12/1/1997 NR Not Applicable Metofliuthrin 240494-70-6 109709 Perobable Human dose shat do not result in a mitogenic response. 7/26/2007 NR Liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metofliuthrin 51218-45-2 108801 Group CPossible Human Carcinogenic potential 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Metraf	Methiocarb	2032-65-7	100501		3/2/1993	RfD Approach	Not Applicable
Methoxyfenozide 161050-58-4 121027 Not Likely to Be Carcinogenic to Humans 7/1/1999 NR Not Applicable Methyl bromide 74-83-9 053201 To Humans 06/20/2001 NR Not Applicable Methyl isothiocyanate 6317-18-6 068103 MITC. 4/30/2009 NR Not Applicable Methyl parathion 298-00-0 053501 MITC. 4/30/2009 NR Not Applicable Metriam 9006-42-2 014601 Group B-Probable Human Carcinogenic to Humans at doses that do not result in a mitogenic response. 7/7/1999 Based on ETU Thyroid tumors in Crl:CD(BR) rats (M & F) Metofluthrin 240494-70-6 109709 response. 7/26/2007 NR Liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metolachlor 51218-45-2 108801 Group C-Possible Human Carcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Metrafenone 220899-03-6 000325 Group D-Not Classifiable at Carcinogenic by Human Carcinogenicity 5/16/1995 NR Not Applicable							
Methoxyfenozide 161050-58-4 121027 to Humans 7/1/1999 NR Not Applicable Methyl bromide 74-83-9 053201 To Humans 06/20/2001 NR Not Applicable Methyl isothiocyanate 6317-18-6 068103 MITC. 4/30/2009 NR Not Applicable Methyl parathion 298-00-0 053501 Not Likely to Be Carcinogenic to Humans 12/1/1997 NR Not Applicable Metiram 9006-42-2 014601 Carcinogen 7/7/1999 Based on ETU Thyroid tumors in Cri-CD(BR) rats (M & F) Metofluthrin 240494-70-6 109709 response. 7/26/2007 NR Liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metolachlor 51218-45-2 108801 Carcinogen 1/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Metrafenone 220899-03-6 000325 Carcinogenic Protential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Metrafenone 21087-64-9 101101 Human Carcinogenic Voltassifiable as to Human Car	Methomyl	16752-77-5	090301		10/25/1996	NR	Not Applicable
Methyl bromide 74-83-9 053201 Not Likely To Be Carcinogenic To Humans 06/20/2001 NR Not Applicable Methyl isothiocyanate 6317-18-6 068103 MITC. Not Likely to Be Carcinogenic Local Carcinogenic There are insufficient data to characterize the cancer risk of MITC. Not Likely to Be Carcinogenic To Humans 12/1/1997 NR Not Applicable Methyl parathion 298-00-0 053501 to Humans Group BProbable Human Carcinogenic To Humans at doses that do not result in a mitogenic response. 7/7/1999 Based on ETU Thyroid tumors in Crl:CD(BR) rats (M & F) Metofluthrin 240494-70-6 109709 response. 7/26/2007 NR mitogenic mode of action for liver tumors in rats. Metolachlor 51218-45-2 108801 Garcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Metrafenone 220899-03-6 000325 Carcinogenic Potential Group CPostibla to Human Carcinogenic Potential Force of Carcinogenic Force of				Not Likely to Be Carcinogenic			
Methyl bromide 74-83-9 053201 To Humans 06/20/2001 NR Not Applicable There are insufficient data to characterize the cancer risk of carcinogenic to the cancer risk of cancer risk of cancer risk of carcinogenic to the cancer risk of carcinogenic to the cancer risk of can	Methoxyfenozide	161050-58-4	121027		7/1/1999	NR	Not Applicable
Methyl isothiocyanate 6317-18-6 068103 MITC. 4/30/2009 NR Not Applicable Methyl parathion 298-00-0 053501 to Human Garcinogenic to Human 240494-70-6 109709 Not Likely to Be Carcinogenic to Human 240494-70-6 109709 Not Likely to Be Carcinogenic to Human 240494-70-6 109709 Not Likely to Be Carcinogenic to Human 240494-70-6 109709 Not Likely to Be Carcinogenic to Human 240494-70-6 109709 Not Likely to Be Carcinogenic to Human 240494-70-6 Not Established a mitogenic mode of action for liver tumors in rats. Metolachlor 51218-45-2 108801 Carcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Metrafenone 220899-03-6 000325 Carcinogenic Potential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Metribuzin 21087-64-9 101101 Human Carcinogenic MICC SC Carcinogenic Not Likely to Be Carcinogenic Potential 7/6/2006 NR Liver Tumors in Charles River CD (SD)BR rats (F) Metribuzin 21087-64-9 101101 Human Carcinogenic Not Classifiable as to Human Carcinogenic Not Likely to Be Carcinogenic Not Not Likely to Be Carcinogenic Not Not Likely to Be Carcinogenic Not				Not Likely To Be Carcinogenic			
Methyl isothiocyanate 6317-18-6 068103 MITC. Methyl parathion 298-00-0 053501 to Humans 12/1/1997 NR Not Applicable Metiram 9006-42-2 014601 Group B-Probable Human Carcinogenic to Humans at doses that do not result in a mitogenic response. Metolachlor 51218-45-2 108801 Group C-Possible Human Carcinogene Metrafenone 220899-03-6 000325 Group D-Not Classifiable as to Metribuzin 1208-04-05 101101 Human Carcinogenic Volume Carcinogenic Potential Carcinogene Volume Volu	Methyl bromide	74-83-9	053201		06/20/2001	NR	Not Applicable
Methyl isothiocyanate 6317-18-6 068103 MITC. 4/30/2009 NR Not Applicable Methyl parathion 298-00-0 053501 Not Likely to Be Carcinogenic to Humans 12/1/1997 NR Not Applicable Metiram 9006-42-2 014601 Carcinogen 7/7/1999 01* = 6.01 E-2 (3/4) Based on ETU Thyroid tumors in Crl:CD(BR) rats (M & F) Metofluthrin 240494-70-6 109709 Not Likely to Be Carcinogenic to Humans at doses that do not result in a mitogenic response. 7/26/2007 NR Liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metofluthrin 51218-45-2 108801 Group CPossible Human Carcinogener 11/16/1994 MOE Approach Liver tumors in Charles River CD (5D)BR rats (F) Metrafenone 220899-03-6 000325 Carcinogenic Potential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Metribuzin 21087-64-9 101101 Human Carcinogenicity 5/16/1995 NR Not Applicable				There are insufficient data to			
Methyl parathion 298-00-0 053501 Not Likely to Be Carcinogenic to Humans 12/1/1997 NR Not Applicable Group BProbable Human 7/7/1999 Based on ETU Thyroid tumors in Crl:CD(BR) rats (M & F) Not Likely to Be Carcinogenic to Humans at doses that do not result in a mitogenic response. 7/26/2007 NR Liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metolachlor 51218-45-2 108801 Carcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Suggestive Evidence of 220899-03-6 000325 Carcinogenic Potential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Metribuzin 21087-64-9 101101 Human Carcinogenicity Not Likely to Be Carcinogenic Votential Not N				characterize the cancer risk of			
Metiram 298-00-0 053501 to Humans 12/1/1997 NR Not Applicable Metiram 9006-42-2 014601 Group BProbable Human Carcinogen 7/7/1999 Based on ETU Thyroid tumors in Crl:CD(BR) rats (M & F) Not Likely to Be Carcinogenic to Humans at doses that do not result in a mitogenic response. 7/26/2007 NR Liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metofluthrin 51218-45-2 108801 Carcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Metrafenone 220899-03-6 000325 Carcinogenic Potential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Metribuzin 121087-64-9 101101 Human Carcinogenicity Not Likely to Be Carcinogenic Not Likely to Be Carcinogenic Potential Probable Average School Probable Average Average School Probable Average A	Methyl isothiocyanate	6317-18-6	068103	MITC.	4/30/2009	NR	Not Applicable
Metiram 9006-42-2 014601 Group BProbable Human Carcinogen 7/7/1999 Rased on ETU Thyroid tumors in Crl:CD(BR) rats (M & F) Not Likely to Be Carcinogenic to Humans at doses that do not result in a mitogenic response. 7/26/2007 NR Metolachlor 51218-45-2 10801 Group CPossible Human Acarcinogen 11/16/1994 MOE Approach Liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metolachlor 51218-45-2 10801 Group CPossible Human Acarcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Suggestive Evidence of Carcinogenic Potential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Mot Applicable Not Applicable				Not Likely to Be Carcinogenic			
Metiram 9006-42-2 014601 Carcinogen 7/7/1999 Based on ETU Thyroid tumors in Crl:CD(BR) rats (M & F) Not Likely to Be Carcinogenic to Humans at doses that do not result in a mitogenic response. 7/26/2007 NR mitogenic mode of action for liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metolachlor 51218-45-2 108801 Carcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Suggestive Evidence of Carcinogenic Potential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Metribuzin 21087-64-9 101101 Human Carcinogenicity Not Likely to Be Carcinogenic	Methyl parathion	298-00-0	053501	to Humans	12/1/1997	NR	Not Applicable
Metofluthrin 240494-70-6 109709 response. 7/26/2007 NR Liver tumors in both sexes of Wistar rats.; Established a mitogenic mode of action for liver tumors in rats. Metolachlor 51218-45-2 108801 Carcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Metrafenone 220899-03-6 000325 Carcinogenic Potential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Metribuzin 21087-64-9 101101 Human Carcinogenicity Not Likely to Be Carcinogenic				Group BProbable Human		Q1* = 6.01 E-2 (3/4)	
to Humans at doses that do not result in a mitogenic response. Metofluthrin 240494-70-6 726/2007 726/2006 726/2007 726/2006 726/2007 726/2006 726/2	Metiram	9006-42-2	014601	Carcinogen	7/7/1999	Based on ETU	Thyroid tumors in Crl:CD(BR) rats (M & F)
Metolachlor 51218-45-2 108801 Carcinogen 11/16/1994 MOE Approach Liver tumors in Charles River CD (SD)BR rats (F) Suggestive Evidence of Carcinogenic Potential 7/6/2006 NR Liver Tumors in CD-1 Mice (M) Group DNot Classifiable as to Metribuzin 21087-64-9 101101 Human Carcinogenicity 5/16/1995 NR Not Applicable Not Likely to Be Carcinogenic	Metofluthrin	240494-70-6	109709	to Humans at doses that do not result in a mitogenic	7/26/2007	NR	
Metribuzin 21087-64-9 101101 Human Carcinogenicity 5/16/1995 NR Not Applicable Not Likely to Be Carcinogenic	Metolachlor	51218-45-2	108801	Carcinogen Suggestive Evidence of		MOE Approach	Liver tumors in Charles River CD (SD)BR rats (F)
Metribuzin 21087-64-9 101101 Human Carcinogenicity 5/16/1995 NR Not Applicable Not Likely to Be Carcinogenic	Metrafenone	220899-03-6	000325	Carcinogenic Potential	7/6/2006	NR	Liver Tumors in CD-1 Mice (M)
	Metribuzin	21087-64-9	101101	Human Carcinogenicity		NR	Not Applicable
Metsulfuron methyl 74223-64-6 122010 to Humans 3/14/2002 NR Not Applicable	Metsulfuron methyl	74223-64-6	122010	·	3/14/2002	NR	Not Applicable

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
			Nat Libely Ta Da Causin a sauis	DATE	METHOD	
		045004	Not Likely To Be Carcinogenic	- /4 - /2 000		
Mevinphos	7786-34-7	015801	To Humans	5/17/2000	NR	Not Applicable
			Group CPossible Human			Liver tumors in CD-1 mice (M & F)
MGK 264	113-48-4	057001	Carcinogen	6/7/1995	RfD Approach	Thyroid tumors in Crl:CDBR rats (M)
						Tumors at multiple sites (Liver, Kidney, Testes, Uterus) in CD
			Group BProbable Human			rats (M & F)
MGK Replellent 326	136-45-8	047201	Carcinogen	11/12/2002	Q1* = 1.6 E-3 (3/4)	Liver (M) & Lung (F) tumors in CD-1 mice
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Molinate	2212-67-1	041402	Carcinogenic Potential	12/14/2000	NR	Kidney & Testicular tumors in Crl:CD(SD)BR rats (M)
						Liver (M & F), Stomach & Bile duct (M) tumors in Sprague
			Likely to be Carcinogenic to			Dawley rats
MON 4660	71526-07-3	600046	Humans	12/9/1999	Q1* = 4.85 E-2 (3/4)	Lung (M) and Liver & Stomach (M & F) tumors in CD-1 mice
Monosodium acid			Not Likely to Be Carcinogenic			
methanearsonate (MMA)	2163-80-6	013803	to Humans	7/26/2000	NR	Not Applicable
			Not Likely to Be Carcinogenic			
MSMA-calcium salt	5902-95-4	013806	to Humans	12/14/2000	NR	Not Applicable
			Group EEvidence of Non-			
Myclobutanil	88671-89-0	128857	carcinogenicity for Humans	6/16/1994	NR	Not Applicable
			Not Likely To Be Carcinogenic			
NAA potassium salt	15165-79-4	056003	To Humans	3/14/2012	NR	Not applicable.
			0 5 5 1 64			
			Group EEvidence of Non-	_ ,_ , ,		
Naled	300-76-5	034401	carcinogenicity for Humans	8/31/1994	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Napropamide	15299-99-7	103001	To Humans	7/7/2005	NR	Not Applicable
			Current D. Nat Clarattiable and			
	100 67 0	000700	Group DNot Classifiable as to			
Naptalam Sodium Salt	132-67-2	030703	Human Carcinogenicity	9/7/1994	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Napthalene Acetates	2122-70-5	056008	To Humans	3/5/2009	NR	Not applicable.
			Group EEvidence of Non-			
Nicosulfuron	111991-09-4	129008	carcinogenicity for Humans	9/1/1998	NR	Not Applicable
			Suggestive Evidence Of			
Nitrapyrin	1929-82-4	069203	Carcinogenic Potential	3/1/2012	RfD Approach	Mouse B6C3F1 (M & F) Liver
			Group CPossible Human			
Norflurazon	27314-13-2	105801	Carcinogen	11/2/1990	NR	Liver tumors in CD-1 mice (M)

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
				DATE	METHOD	
			Not Likely to Be Carcinogenic			
Novaluron	116714-46-6	124002	to Humans	2/4/2004	NR	Not Applicable
			No. 12 of the Bridge Control of the			
			Not Likely to Be Carcinogenic			
			to Humans (quantification of			
			cancer risk is not required			
			since the NOAEL selected for			
			the chronic Reference Dose			
			would address the concerns			Urinary bladder tumors in rats and liver tumors in mice;
			for the precursor events			Established a cytotoxic mode of action involving oxidative
Orthophenylphenol (see also PC			leading to development of			damage to cells and subsequent regenerative hyperplasia for
064104)	90-43-7	064103	bladder and liver tumors)	10/12/2005	NR	bladder tumors in rats.
			Not Likely to Be Carcinogenic			
			to Humans (quantification of			
			cancer risk is not required			
			since the NOAEL selected for			
			the chronic Reference Dose			
			would address the concerns			Urinary bladder tumors in rats and liver tumors in mice;
			for the precursor events			Established a cytotoxic mode of action involving oxidative
Orthophenylphenol, Sodium salt			leading to development of			damage to cells and subsequent regenerative hyperplasia for
(see also PC 064103)	132-27-4	064104	bladder and liver tumors)	10/12/2005	NR	bladder tumors in rats.
			Suggestive Evidence of			
Orthosulfamuron	213464-77-8	108209	Carcinogenic Potential	10/26/2006	RfD Approach	Thyroid tumors in Han Wistar rats (M)
			Likely to be Carcinogenic to			
Oryzalin	19044-88-3	104201	Humans	6/25/2003	Q1* = 7.79 E-3 (3/4)	Thyroid & Skin (M & F) and Mammary (F) tumors in F344 rats
			Likely To Be Carcinogenic To			Liver tumors in F344 rats (M)
Oxadiazon	19666-30-9	109001	Humans	5/1/2001	Q1* = 7.11 E-2 (3/4)	Liver tumors in CD-1 mice (M & F)
			Group CPossible Human			
Oxadixyl	77732-09-3	126701	Carcinogen	1/4/1989	Q1* = 5.3 E-2 (2/3)	Liver tumors in Han-Wistar rats (M & F)
			Group EEvidence of Non-			
Oxamyl	23135-22-0	103801	carcinogenicity for Humans	11/5/1996	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Oxydemeton-methyl	301-12-2	058702	to Humans	7/24/1997	NR	Not Applicable
			Likely To Be Carcinogenic To			
Oxyfluorfen	42874-03-3	111601	Humans	4/20/2010	Q1* = 7.32 E-2 (3/4)	Liver tumors in CD-1 mice (M)

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
				DATE	METHOD	
			Group DNot Classifiable as to			
Oxytetracycline	2058-46-0	006308	Human Carcinogenicity	12/18/1992	NR	Not Applicable
			Group BProbable Human			Kidney & Liver tumors in F344 rats (M & F)
Oxythioquinox	2439-01-2	054101	Carcinogen	2/15/1996	Q1* = 3.42 E-2 (3/4)	Lung tumors in NMRI mice (M)
			Group DNot Classifiable as to			
Paclobutrazol	76738-62-0	125601	Human Carcinogenicity	6/23/1994	NR	Not Applicable
			Not Likely To Be Carcinogenic			Liver tumors in B6C3F1 mice (M & F); Established a mitogenic
Paradichlorobenzene	106-46-7	061501	To Humans	6/5/2007	NR	mode of action for liver tumors.
			Group DNot Classifiable as to			
Paranitrophenol	100-02-7	056301	Human Carcinogenicity	5/14/1996	NR	Not Applicable
			Group EEvidence of Non-			
Paraquat dichloride	1910-42-5	061601	carcinogenicity for Humans	4/19/2000	NR	Not Applicable
						Adrenal, Thyroid & Pancreas tumors in Osborne-Mendel rats
			Group CPossible Human			(M)
Parathion, ethyl-	56-38-2	057501	Carcinogen	9/11/1991	RfD Approach	Pancreas tumors in Wistar rats (M)
			Not Likely to Be Carcinogenic			
Pebulate	1114-71-2	041403	to Humans	12/7/1998	NR	Not Applicable
			Group CPossible Human			
Pendimethalin	40487-42-1	108501	Carcinogen	7/24/1992	RfD Approach	Thyroid tumors in Sprague-Dawley rats (M & F)
			Suggestive Evidence Of			Wistar Rat Hematopoietic System and Brain (M); Wistar Rat
Penflufen	494793-67-8	100249	Carcinogenic Potential	3/30/2011	RfD Approach	Ovaries (F)
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Penoxulam	219714-96-2	119031	Carcinogenic Potential	3/24/2004	NR	Mononuclear Cell Leukemia in Fisher 344 rats (M)
			Group CPossible Human			
Pentachloronitrobenzene (PCNB)	82-68-8	056502	Carcinogen	12/18/1992	RfD Approach	Thyroid tumors in CD rats (M)
,			Group BProbable Human			Liver & Vascular (M & F) and Adrenal (M) tumors in B6C3F1
Pentachlorophenol	87-86-5	063001	Carcinogen	1/3/1991	Not Determined	mice
·			Suggestive Evidence Of			
Penthiopyrad	183675-82-3	090112	Carcinogenic Potential	10/18/2011	RfD Approach	Liver tumors in CD-1 mice (M)
			Likely to be Carcinogenic to	-,,		
 Permethrin	52645-53-1	109701	Humans	10/23/2002	Q1* = 9.567 E-3 (3/4)	Lung (F) & Liver (M & F) tumors in CD-1 mice
		100.01		_ 3, _ 3, _ 500_	3.557 2 5 (5/4)	
			Group DNot Classifiable as to			
Phenmedipham	13684-63-4	098701	Human Carcinogenicity	4/28/1993	NR	Not Applicable
пентешриан	13004-03-4	030701	Traman carcinogenicity	7/ 20/ 1333	INIT	Ινοι πρρικανίε

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
				DATE	METHOD	
			Suggestive Evidence of			
			Carcinogenicity, but Not			Vascular tumors in Wistar rats (F) & C5B1/10JfCD-1/Alpk mice
			Sufficient to Assess Human			(M & F) following oral exposure; Vascular tumors in Alderley
РНМВ	32289-58-0	111801	Carcinogenic Potential	07/16/2003	NR	Park mice (F) following dermal exposure
			Group EEvidence of Non-			
Phorate	298-02-2	057201	carcinogenicity for Humans	12/30/1993	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Phosalone	2310-17-0	097701	to Humans	8/12/1999	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Phosmet	732-11-6	059201	Carcinogenic Potential	10/27/1999	NR	Liver (M & F) & Mammary (F) tumors in B6C3F1 mice
			Group CPossible Human			
Phosphamidon	13171-21-6	018201	Carcinogen	5/31/1989	NR	Bladder & Liver tumors in Sprague-Dawley rats (M)
			Group EEvidence of Non-			
Phostebupirim	96182-53-5	129086	carcinogenicity for Humans	4/27/1993	NR	Not Applicable
			Group EEvidence of Non-			·
Picloram Acid	1918-02-1	005101	carcinogenicity for Humans	4/1/1994	NR	Not Applicable
			Group EEvidence of Non-			
Picloram Acid Ethylhexyl Ester	26952-20-5	005103	carcinogenicity for Humans	4/1/1994	NR	Not Applicable
, ,			Group EEvidence of Non-			
Picloram Acid Potassium Salt	2545-60-0	005104	carcinogenicity for Humans	4/1/1994	NR	Not Applicable
		1		1,,,		, , , , , , , , , , , , , , , , , , ,
Picloram Acid			Group EEvidence of Non-	l		
Triisopropanolamine Salt	6753-47-5	005102	carcinogenicity for Humans	4/1/1994	NR	Not Applicable
			Suggestive Evidence Of			
Picoxystrobin	117428-22-5	129200	Carcinogenic Potential	11/15/11	NR	Rat Crl:CD (BR) Testes (M)
			Data Are Inadequate for an			
			Assessment of Human			
Pinoxaden	243973-20-8	147500	Carcinogenic Potential	5/18/2005	NR	Not Applicable
			Group CPossible Human		RfD and MOE	
Piperonyl butoxide	51-03-6	067501	Carcinogen	6/7/1995	Approaches	Liver tumors in CD-1 mice (M & F)
						Tumors at multiple sites (Liver and Lung in M & F; Ovary and
			Likely to be Carcinogenic to			Mammary in F) in Swiss mice
Pirimicarb	23103-98-2	106101	Humans	7/13/2005	Q1* = 3.526 E -2 (3/4)	Lung tumors in CD-1 mice (F)
Pirimiphos-methyl	29232-93-7	108102	Cannot Be Determined	1/29/1998	NR	Not Applicable

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			Inadequate Information to			
Polymeric Betaine	214710-34-6	103679	Assess Carcinogenic Potential	10/3/2006	NR	Not Applicable
			See Hexavalent Chromium			
Potassium dichromate	7778-50-9	068302	(CrVI)	07/01/2009		
			Not Likely to Be Carcinogenic			
Prallethrin	23031-36-9	128722	to Humans	6/27/2003	NR	Not Applicable
			Group DNot Classifiable as to			
Primisulfuron-methyl	86209-51-0	128973	Human Carcinogenicity	5/3/1990	NR	Not Applicable
,			Group CPossible Human			
Prochloraz	67747-09-5	128851	Carcinogen	7/1/1988	Q1* = 1.5 E-1 (2/3)	Liver tumors in CD-1mice (M & F)
			Group BProbable Human			Testes & Pituitary tumors in Osborne-Mendel rats (M & F)
Procymidone	32809-16-8	129044	Carcinogen	4/5/1991	Q1* = 1.339 E-2 (3/4)	Liver tumors in B6C3F1 mice (F)
riocymidone	32803-10-8	123044	carcinogen	4/3/1331	Q1 - 1.333 L-2 (3/4)	Eiver tumors in bocst 1 mice (1)
			Group CPossible Human			Thyroid & Pancreas tumors in Sprague- Dawley rats (M & F)
Prodiamine	29091-21-2	110201	Carcinogen	6/10/1991	RfD Approach	Fibrosarcomas in CD-1 mice (M)
			Group EEvidence of Non-			
Profenofos	41198-08-7	111401	carcinogenicity for Humans	2/6/1996	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Prohexadione	127277-53-6	112600	to Humans	4/14/2000	NR	Not Applicable
			Consum D. Nat Classifishla and			
Dromoton	1610 10 0	000004	Group DNot Classifiable as to		ND	Net Applicable
Prometon	1610-18-0	080804	Human Carcinogenicity Group EEvidence of Non-	11/25/1992	NR	Not Applicable
Dromotrun	7287-19-6	080805	•	7/26/1004	NR	Not Applicable
Prometryn	7287-19-0	000005	carcinogenicity for Humans	7/26/1994	INK	Not Applicable
			Group BProbable Human			Testes (M) & Thyroid (M & F) tumors in Crl:CD(SD)BR rats
Pronamide	23950-58-5	101701	Carcinogen	12/10/2001	Q1* = 2.59 E-2 (3/4)	Liver tumors B6C3F1 mice (M)
TOTALINGE	23930-36-3	101/01	Carcinogen	12, 10, 2001	Q1 - 2.33 L-2 (3/4)	Liver turnors boest 1 times (wi)
						Stomach (M) tumors in Fischer 344 rats
			Likely to be Carcinogenic to			Thyroid (M & F) & Ovary (F) tumors in Sprague-Dawley rats
Propachlor	1918-16-7	019101	Humans	10/16/1997	Q1* = 3.2 E-2 (3/4)	Liver tumors in CD-1 mice (M)
	2310 10 /	010101	Not Likely To Be Carcinogenic	10, 10, 1337	Q_ 312 2 2 (3/4)	The camera in our Times (in)
Propamocarb hydrochloride	25606-41-1	119302	To Humans	5/31/2000	NR	Not Applicable

CHEMICAL	CAS NO.	PC CODE	CANCER CLASSIFICATION	REPORT	QUANTIFICATION	TUMOR SITES/ STRAIN/ SPECIES/ SEX
				DATE	METHOD	
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Propanil	709-98-8	028201	Carcinogenic Potential	6/19/2001	NR	Testes & Liver tumors in Sprague-Dawley rats (M)
			Group BProbable Human			
Propargite	2312-35-8	097601	Carcinogen	7/23/1992	Q1* = 1.92 E-1 (3/4)	Jejunum tumors in Crl:CDBR rat (M & F)
			No. 171 of the Burgon in the State of the St			NA
	100 10 0		Not Likely to Be Carcinogenic	12/0/2005		Mammary tumors in Sprague Dawley rats (F); Established a
Propazine	139-40-2	080808	to Humans	12/8/2005	NR	neuroendocrine mode of action for mammary tumors in rats.
_			Not Likely to Be Carcinogenic			
Propetamphos	31218-83-4	113601	to Humans	10/31/1998	NR	Not Applicable
			Group CPossible Human			
Propiconazole	60207-90-1	122101	Carcinogen	9/11/1992	RfD Approach	Liver tumors in CD-1 mice (M)
					Q1* = 4.95 X 10E-2	
					based on PTU male	Lung in NMRI Mouse (F); Liver in SPF CF1/W74 Mouse (M & F)
			Likely To Be Carcinogenic To		mouse liver tumors	and CF-1 Mouse (M & F); Established Thyroid Hormone
Propineb	12071-83-9	522200	Humans	2/11/2013	combined	Disruption MOA for rat thyroid tumors.
			Group BProbable Human			Bladder tumors in Wistar rats (M & F)
Propoxur	114-26-1	047802	Carcinogen	6/17/1996	Q1* = 3.69 E-3 (3/4)	Liver tumors in B6C3F1 mice (M)
			Not Likely to Be Carcinogenic			
Propoxycarbazone-Sodium	181274-15-7	122019	to Humans	4/6/2004	NR	Not Applicable
			Suggestive Evidence Of			Liver in Crl:CD (SD) BR Rat (F); Thyroid in Crl:CD (SD) BR Rat
Proquinazid	189278-12-4	044502	Carcinogenic Potential	4/24/2013	NR	(M)
			Data Are Inadequate for an			
			Assessment of Human			
Prosulfuron	94125-34-5	129031	Carcinogenic Potential	1/24/2000	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Prothioconazole	178928-70-6	113961	To Humans	12/31/2007	NR	Not Applicable
			Likely to be Carcinogenic to			Liver tumors in Tif:RAIf(SPF) Sprague-Dawley rats (F)
Pymetrozine	123312-89-0	101103	Humans	9/22/1999	Q1* = 1.19 E-2 (3/4)	Liver tumors in Tif:MAGf(SPF) mice (M & F)
			Not Likely to Be Carcinogenic			
Pyraclostrobin	175013-18-0	099100	to Humans	2/15/2007	NR	Not Applicable
			Likely to be Carcinogenic to			
Pyraflufen ethyl	129630-19-9	030090	Humans	10/8/2002	Q1* = 3.32 E-2 (3/4)	Liver tumors in (SPF) ICR Crj CD-1 mice (M &F)
,			Suggestive Evidence Of		\ \tag{-1, 1}	Eye tumors in Wistar rats (M)
Pyrasulfotole	365400-11-9	000692	Carcinogenic Potential	5/17/2007	NR	Urinary bladder tumors in C57BL mice (M & F)

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				DATE	METHOD	
			Not Likely To Be Carcinogenic			
Pyrazon	1698-60-8	069601	To Humans	7/28/2005	NR	Not Applicable
			Not Likely To Be Carcinogenic			
			To Humans at doses that do			
			not cause mitogenic repsonse			Liver tumors in Crl:CD® (SD)IGS BR rats (F); Established a non-
Pyrethrins	8003-34-7	069001	in the liver cell proliferation	2/14/2008	NR	genotoxic mitogenic mode of action for liver tumors.
			Group EEvidence of Non-			
Pyridaben	96489-71-3	129105	carcinogenicity for Humans	5/11/1994	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Pyridalyl	179101-81-6	295149	To Humans	08/03/2004	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Pyridate	55512-33-9	128834	To Humans	1/24/2000	NR	Not Applicable
			Not Likely To Be Carcinogenic			
			To Humans at levels that do			
			not alter rodent hormone			Testes in CD-1 Mouse (M) and F344/N Rat (M); Androgen
Pyrifluguinazon	337458-27-2	555555	homeostasis	6/21/2012	NR	Dependent MOA
			Group CPossible Human			
Pyrimethanil	53112-28-0	288201	Carcinogen	2/11/1997	MOE Approach	Thyroid tumors in Sprague-Dawley rats (M &F)
			Not Likely To Be Carcinogenic			
Pyriofenone	688046-61-9	028828	To Humans	12/14/2011	NR	Not Applicable
			Group EEvidence of Non-			
Pyriproxyfen	95737-68-1	129032	carcinogenicity for Humans	8/15/1995	NR	Not Applicable
, , ,			Group CPossible Human			Kidney tumors in Crl:CDBR rats (M)
Pyrithiobac-sodium	123343-16-8	078905	Carcinogen	9/5/1995	Q1* = 1.05 E-3 (3/4)	Liver tumors in CD-1 mice (M)
,				, , ,		
			Not Likely To Be Carcinogenic			
			To Humans at doses below			
			those that cause urinary			
			bladder calculi formation			Urinary Bladder Crl:CD (SD) IGS BR Rat (M); Established a
			resulting in cellular damage of			cytotoxic and regeneration proliferation mode of action for
Pyroxasulfone	447399-55-5	090099	the urinary tract	05/17/2011	RfD Approach	urinary bladder tumors.
1. 1. 3.434110110	11,7333 33 3	330033	Not Likely To Be Carcinogenic	55, 17, 2011	ripprouch	a.ma., wadde turriors
Pyroxsulam	422556-08-9	108702	To Humans	7/12/2007	NR	Not Applicable
. ,. 5/15414111	1.22330 00 3	100702		., 12, 2007		, record periodole
			Group DNot Classifiable as to			
Quinchlorac	84087-01-4	128974	Human Carcinogenicity	8/26/1992	NR	Not Applicable
Quinciliorac	04007-01-4	1203/4	Truman Carcinogenicity	0/20/1332	INIX	INOT Applicable

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			Not Likely to Be Carcinogenic	DATE	INICIAOD	
Quinoxyfen	124495-18-7	055459	to Humans	1/28/2003	NR	Not Applicable
Quilloxylell	124493-10-7	033433	to riumans	1/28/2003	IVIX	Not Applicable
			Group DNot Classifiable as to			
Quizalofop ethyl	76578-14-8	128711	Human Carcinogenicity	3/17/1988	NR	Not Applicable
Quizalorop etriyi	70378-14-8	120/11	Likely to be Carcinogenic to	3/17/1300	IVIX	Liver tumors in Sprague-Dawley rats (F)
Resmethrin	10453-86-8	097801	Humans	5/25/2005	Q1* = 5.621 E-2 (3/4)	Liver tumors in Swiss Mice (M)
Resilieum	10433-80-8	037601	Not Likely to Be Carcinogenic	3/23/2003	Q1 - 3.021 L-2 (3/4)	Liver turnors in swiss wince (ivi)
Rimsulfuron	122931-48-0	129009	to Humans	2/19/1998	NR	Not Applicable
Killisulluloli	122931-40-0	129009	Group EEvidence of Non-	2/19/1996	IND	Not Applicable
DotoNono	83-79-4	071003	· ·	10/5/1000	NR	Not Applicable
RoteNone	83-79-4	071003	carcinogenicity for Humans	10/5/1988	INK	Not Applicable
C-fl. f :! (DAC 000 II)	272427 25 4	110202	Not Likely To Be Carcinogenic	7/22/2000	ND	Nick Augustica hija
Saflufenacil (BAS 800 H)	372137-35-4	118203	To Humans	7/22/2009	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
S-Bioallethrin	28434-00-6	004004	Carcinogenic Potential	12/2/2003	NR	Kidney tumors in Sprague-Dawley rats (M)
			Likely To Be Carcinogenic To			Wistar Rat Liver and Thyroid (M); Wistar Rat Uterus (F); CD-1
Sedaxane	874967-67-6	129223	Humans	5/18/2011	Q1* = 4.64 E-3 (3/4)	Mouse Liver (M)
			Not Likely to Be Carcinogenic			
Sethoxydim	74051-80-2	121001	to Humans	3/19/2003	NR	Not Applicable
						Mammary tumors in Sprague-Dawley rats (F); Established a
			Not Likely to be Carcinogenic			mode of action for neuroendocrine disruption for mammary
Simazine	122-34-9	080807	to Humans	4/14/2005	NR	tumors in rats.
			Group CPossible Human			
s-Metolachlor	87392-12-9	108800	Carcinogen	9/28/2001	MOE Approach	Liver tumors in Charles River CD (SD)BR rats (F)
			Group EEvidence Of Non-			
Sodium bentazon	50723-80-3	103901	Carcinogenicity For Humans	1/14/1992	NR	Not Applicable
			Group DNot Classifiable as to			
Sodium omadine	15922-78-8	088004	Human Carcinogenicity	5/16/1995	NR	Not Applicable
						Brain Han Wistar Rat (M); The CARC concluded that a non-
						genotoxic mode of action (MOA) for thyroid tumors observed
						in male rats has been established as a result of upregulation
						of UDPGT, increased clearance of T3 and T4 hormones and
			Suggestive Evidence Of			increased TSH levels, resulting in increased thyroid cell
Solatenol	1072957-71-1	122305	Carcinogenic Potential	9/24/2014	NR	proliferation, which progress to form thyroid tumors.

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	107166 10 1		Note: Late To De Continue de	DATE	METHOD	
	187166-40-1 +		Not Likely To Be Carcinogenic	2 /2 2 /2 2 2 2		
Spinetoram	187166-15-0	110008	To Humans	9/20/2007	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Spinosad	131929-60-7	110003	to Humans	7/18/2002	NR	Not Applicable
			Likely to be Carcinogenic to			Testes (M) & Uterine (F) tumors in Wistar rats
Spirodiclofen	148477-71-8	124871	Humans	6/10/2004	Q1* = 1.49 E-2 (3/4)	Liver tumors in CD-1 mice (M & F)
			Not Likely To Be Carcinogenic			
Spiromesifen	283594-90-1	024875	To Humans	5/21/2008	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Spirotetramat	203313-25-1	392201	To Humans	3/26/2009	NR	Not Applicable
·			Not Likely to Be Carcinogenic			
Spiroxamine	118134-30-8	120759	to Humans	11/14/2003	NR	Not Applicable
-						
			Group EEvidence of Non-			
Sulfentrazone	122836-35-5	129081	carcinogenicity for Humans	5/7/1996	NR	Not Applicable
			Group EEvidence of Non-			
Sulfosate	81591-81-3	128501	carcinogenicity for Humans	7/26/1994	NR	Not Applicable
			Not Likely to be Carcinogenic to Humans at doses that do not cause crystals with subsequent calculi formation resulting in cellular damage of			Urinary bladder tumors seen in female rats and male mice; Established cytotoxic and regeneration proliferation mode of
Sulfosulfuron	141776-32-1	085601	the urinary tract.	12/16/2008	NR	action for urinary bladder tumors.
			Suggestive Evidence Of			Rat F344/N (M) Preputial Gland; Acceptable Mitogenic MOA
Sulfoxaflor	946578-00-3	005210	Carcinogenic Potential	4/26/12	RfD Approach	for male rat liver tumors.
			Not Likely to Be Carcinogenic			
Sulfuryl fluoride	2699-79-8	078003	to Humans	5/24/2001	NR	Not Applicable
			Group EEvidence of Non-			
Sulprofos	35400-43-2	111501	carcinogenicity for Humans	3/26/1996	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Sumithrin	26002-80-2	069005	to Humans	5/30/2006	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Tau-fluvalinate	102851-06-9	109302	To Humans	9/29/2005	NR	Not Applicable
			Group CPossible Human			
TCMTB (Busan 72)	21564-17-0	035603	Carcinogen	8/28/1996	RfD Approach	Testes (M) & Thyroid (F) tumors in Sprague-Dawley rats

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				DATE	METHOD	
			Group CPossible Human			
Tebuconazole	107534-96-3	128997	Carcinogen	9/15/1993	RfD Approach	Liver tumors in NMRI mice (M & F)
			Group EEvidence of Non-			
Tebufenozide	112410-23-8	129026	carcinogenicity for Humans	8/29/1994	NR	Not Applicable
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Tebufenpyrad	119168-77-3	090102	Carcinogenic Potential	7/15/2002	NR	Liver tumors in F344 rats (M & F)
			Group DNot Classifiable as to			
Tebuthiuron	34014-18-1	105501	Human Carcinogenicity	3/1/1993	NR	Not Applicable
reputition	34014-16-1	103301	Truman Carcinogenicity	3/1/1993	IVIX	Not Applicable
			Not Likely To Be Carcinogenic			
Tefluthrin	79538-32-2	128912	To Humans	5/30/2012	NR	Not Applicable; NA
						Tumors at multiple sites (Forestomach, Liver, Mammary,
			Group BProbable Human		Q1* = 1.3 E-5 (3/4)	Thyroid, Adrenal, Urinary, Lung) in Fischer 344 rats & B6C3F1
Telone	542-75-6	029001	Carcinogen	3/19/2002	(Inhalation)	mice (M & F)
			Suggestive Evidence of			
Tembotrione	335104-84-2	012801	Carcinogenic Potential	5/22/2007	RfD Approach	Eye tumors in Wistar rats (M)
			Data Are Inadequate for an			
			Assessment of Human			
Tepraloxydim	149979-41-9	121005	Carcinogenic Potential	2/27/2001	NR	Not Applicable
			Group EEvidence of Non-			
Terbacil	5902-51-2	012701	carcinogenicity for Humans	9/30/1994	NR	Not Applicable
			Group EEvidence of Non-			
Terbufos	13071-79-9	105001	carcinogenicity for Humans	3/9/1994	NR	Not Applicable
			Crown D. Not Classifiable as to			
Tarbuthulazina	E01E 41 3	000014	Group DNot Classifiable as to		ND	Not Applicable
Terbuthylazine	5915-41-3	080814	Human Carcinogenicity	8/24/1994	NR	Not Applicable
Taulautuu	886 50 0	000013	Group CPossible Human	2/2/1000	ND	Tumors at multiple sites (Mammary, Liver, Thyroid, Testes in
Terbutryn	886-50-0	080813	Carcinogen	3/3/1988	NR	CD rats (M & F)
T	2502.45.0	004704	Group BProbable Human	C /20 /4000	04* 2.22.5.2 (2/4)	Tumors at multiple sites (Liver, Bile duct, Mammary,
Terrazole	2593-15-9	084701	Carcinogen	6/29/1999	Q1* = 3.33 E-2 (3/4)	Thyroid, Testes) in Sprague-Dawley rats (M & F)
	054.44.5		Likely to be Carcinogenic to	2/7/2002	0.1	Adrenal & Thyroid tumors in Sprague-Dawley rats (M)
Tetrachlorvinphos	961-11-5	083701	Humans	3/7/2002	Q1* = 1.83 E-3 (3/4)	Liver tumors; B6C3F1 mice (F)

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				DAIE	IMETHOD	
Tetraconazole	112281-77-3	120603	Not Likely To Be Carcinogenic To Humans at levels that do not cause increased cell proliferation in the liver	4/2/2013	NR	Liver tumors in Crl:CD-1 (ICR) mice (M &F); Accepted Mitogenesis as MOA for mice liver tumors.
Tetramethrin	7696-12-0	069003	Group CPossible Human Carcinogen	12/11/1989	NR	Testes tumors in CR CD-1 rats, Sprague-Dawley rats & Long- Evans Hooded rats (M)
Thiabendazole	148-79-8	060101	Likely to be Carcinogenic to Humans at High Does; Not Likely to be Carcinogenic to Humans at Low Doses	3/8/2002	MOE Approach	Thyroid tumors in Sprague-Dawley Crl:CD BR rats (M & F); Established a hormonal mode of action for thyroid tumors.
Thiacloprid	111988-49-9	014019	Likely to be Carcinogenic to Humans	10/31/2012	Q1* = 4.06 E-2 (3/4)	Thyroid (M & F) & Uterine (F) tumors in Wistar rats Ovarian tumors in B6C3F mice (F)
Thiamethoxam	153719-23-4	060109	Not Likely to Be Carcinogenic to Humans	6/13/2005	NR	Liver tumors in Tif:MAGf (SPF) mice (M &F); Established a cytotoxic, regenerative proliferative, non-genotoxic mode of action for liver tumors in mice.
Thiazopyr (MON 13200)	117718-60-2	129100	Suggestive Evidence Of Carcinogenic Potential	12/6/2007	NR	Kidney tumors in Sprague Dawley rats (M & F))
Thidiazuron	51707-55-2	120301	Not Likely To Be Carcinogenic To Humans	8/31/2005	NR	Not Applicable
Thiencarbazone-methyl	317815-83-1	015804	Not Likely To Be Carcinogenic To Humans at doses that do not cause urothelium cytotoxicity	2/29/2008	NR	Urinary bladder tumors in C57BL/6J mice (M &F); Established a cytotoxic and regeneration proliferation mode of action for urinary bladder tumors in mice.
Thifensulfuron methyl	79277-27-3	128845	Not Likely To Be Carcinogenic To Humans	12/12/2006	NR	Not Applicable
Thiobencarb (Bolero)	28249-77-6	108401	Group DNot Classifiable as to Human Carcinogenicity	6/10/1996	NR	Not Applicable
Thiocyclam hydrogen oxalate	31895-22-4	128868	Group DNot Classifiable as to Human Carcinogenicity	9/15/1994	NR	Not Applicable
Thiodicarb	59669-26-0	114501	Group BProbable Human Carcinogen	6/10/1996	MOE Approach	Testes tumors in Sprague-Dawley rat (M) Liver tumors in CD-1 mice (M & F)
Thiophanate-methyl	23564-05-8	102001	Likely to be Carcinogenic to Humans	8/24/1999	Q1* = 1.16 E-2 (3/4)	Thyroid tumors in F344 rats (M &F) Liver tumors in CD-1 mice (M & F)
Thiram	137-26-8	079801	Not Likely to Be Carcinogenic to Humans	4/14/2003	NR	Not Applicable

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				DATE	METHOD	
Tolclofos-methyl	57018-04-9	128905	Not Required (nonfood)	3/22/2012	NR	Not Applicable
			Not Likely To Be Carcinogenic			
Tolfenpyrad	129558-76-5	090111	To Humans	06/03/2010	NR	Not Applicable
			Likely to be Carcinogenic to			
Tolyfluanid	731-27-1	309200	Humans	6/18/2002	Q1* = 1.59 E-3 (3/4)	Thyroid tumors in Wistar rats (M & F)
			Not Likely to be Carcinogenic			
			to Humans at Doses that Do			Thyroid tumors in Wistar rats (M & F); Established a hormonal
			Not Alter Rat Thyroid			mode of action for thyroid tumors observed only at an
Topramezone	210631-68-8	123009	Hormone Homeostasis	5/19/2005	NR	excessive dose.
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			Testicular tumors in Wistar rats (M)
Tralkoxydim	87820-88-0	121000	Carcinogenic Potential	6/30/2004	NR	Ovarian tumors in Syrian Golden hamsters (F)
			Group CPossible Human			Thyroid tumors in Wistar rats (M)
Triadimefon	43121-43-3	109901	Carcinogen	12/4/1996	RfD Approach	Liver tumors in NMRI mice (M & F)
			Group CPossible Human			
Triadimenol	55219-65-3	127201	Carcinogen	1/29/1988	NR	Liver tumors in CF1/W74 mice (F)
			Group CPossible Human			Kidney tumors in Sprague-Dawley rats (M)
Triallate	2303-17-5	078802	Carcinogen	1/12/1994	Q1* = 7.17 E-2 (3/4)	Liver tumors in B6C3F1 mice (F)
			Group EEvidence of Non-			
Triasulfuron	82097-50-5	128969	carcinogenicity for Humans	2/27/1991	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Triazamate	112143-82-5	128100	to Humans	12/1/1997	NR	Not Applicable
			Group CPossible Human			
Tribenuron methyl	101200-48-0	128887	Carcinogen	7/14/1989	NR	Mammary tumors in Sprague-Dawley rats (F)
			Likely to be Carcinogenic to			
			Humans (High Doses); Not			
			Likely to be Carcinogenic to			Liver (M), Lung (F), & Small intestine (M & F) tumors in CD-1
Tribufos	78-48-8	074801	Humans (Low Doses)	5/22/1997	MOE Approach.	mice
			,			
			Group DNot Classifiable As			
Tributyltin maleate	14275-57-1	083118	To Human Carcinogenicity	3/31/2005	NR	Not Applicable
,			Likely to be Carcinogenic to	, ,		
			Humans (High Doses), Not			
			Likely to be Carcinogenic to			Kidney & Lung tumors in Fischer 344 rats (M & F)
Trichlorfon	52-68-6	057901	Humans (Low Doses)	7/15/1999	NR	Mammary tumors in CD-1 mice (F)

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			Group DNot Classifiable as to			
Triclopyr	55335-06-3	116001	Human Carcinogenicity	5/9/1996	NR	Not Applicable
			Not Likely To Be Carcinogenic			Liver tumors in CD-1 mice (M & F); Established a PPARa mode
Triclosan	3380-34-5	054901	To Humans	1/4/2008	NR	of action for liver tumors.
			Not Likely to be Carcinogenic			
Tricyclazole	41814-78-2	120201	to Humans	4/1/2014	NR	Not Applicable
			Group CPossible Human			
Tridiphane	58138-08-2	123901	Carcinogen	4/22/1986	NR	Liver tumors in B6C3F1 mice (F)
			Not Likely to Be Carcinogenic			
Trifloxystrobin	141517-21-7	129112	to Humans	6/16/1999	NR	Not Applicable
			Not Likely to Be Carcinogenic			
Trifloxysulfuron	290332-10-4	119009	to Humans	7/22/2003	NR	Not Applicable
			Group EEvidence of Non-			
Triflumizole	68694-11-1	128879	carcinogenicity for Humans	8/10/1993	NR	Not Applicable
			Group CPossible Human			Thyroid, Renal pelvis & Urinary bladder tumors in Fischer 344
Trifluralin	1582-09-8	036101	Carcinogen	4/11/1986	Q1* = 2.93 E-3 (3/4)	rats (F)
			Group CPossible Human			
Triflusulfuron-methyl	126535-15-7	129002	Carcinogen	5/28/1996	RfD Approach	Testes tumors in CD-1 rats (M)
,			Suggestive Evidence of		I I I I I I I I I I I I I I I I I I I	
			Carcinogenicity, but Not			
			Sufficient to Assess Human			
Triforine	26644-46-2	107901	Carcinogenic Potential	6/29/2004	NR	Liver (M) & Lung (F) tumors in Crl:CD-1 mice
Timorine .	20011102	107301	Not Likely To Be Carcinogenic	0,23,2001		Errer (m) & Eang (r) tamers in erres 1 mice
Trinexapac-Ethyl	95266-40-3	112602	To Humans	9/5/2008	NR	Not Applicable
Timexapae Ethyr	33200 40 3	112002	Group BProbable Human	3/3/2000	IVIX	Pituitary & Leydig cell tumors in Wistar rats (M &F)
Triphenyltin hydroxide (TPTH)	76-87-9	083601	Carcinogen	5/24/1990	Q1* = 1.83 E-0 (3/4)	Liver tumors in NMRI mice (M &F)
Implicity territoriae (11 111)	70075	003001	Not Likely to be Carcinogenic	3/24/1330	Q1 - 1.03 L 0 (3/4)	Liver turnors in ravina mice (wi car)
Triticonazole	131983-72-7	125620	to Humans	6/15/2006	NR	Not Applicable
Titiconazoic	131303 72 7	123020	Not Likely to Be Carcinogenic	0/13/2000	IVIX	Not Applicable
Troysan polyphase (IPBC)	55406-53-6	107801	to Humans	12/4/1996	NR	Not Applicable
Troysari polypriase (IFBC)	33400-33-0	107601	Group BProbable Human	12/4/1330	IVIX	Multiple tumors (Lung, Blood vessels, Liver, Kidney) in
UDMH	57-14-7	600018	Carcinogen	7/26/1991	Q1* = 4.6 E-1 (2/3)	multiple species, strains & studies.
ODIVIH	57-14-7	000018	Group EEvidence of Non-	7/26/1991	Q1 = 4.0 E-1 (2/3)	multiple species, strains & studies.
LIMD 488 (DAI 6000)	111579 22 6	120025		E /6 /1004	ND	Not Applicable
UMP-488 (PAL 6000)	111578-32-6	129025	carcinogenicity for Humans	5/6/1994	NR	Not Applicable
Uniconarolo	02657 22 4	120076	Group CPossible Human	10/11/1000	ND	Liver type are in CD 1 miss (NA)
Uniconazole	83657-22-1	128976	Carcinogen	10/11/1990	NR	Liver tumors in CD-1 mice (M)
		44055	Group CPossible Human	C /0.0 /0.555		
Vinclozolin	50471-44-8	113201	Carcinogen	6/20/2000	MOE Approach	Leydig cell tumors in Wistar rats (M)

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			Group CPossible Human			
Zeta-Cypermethrin	52315-07-8	129064	Carcinogen	9/27/1988	NR	Lung tumors in Alderly Park SPF Swiss strain mice (F)
			Suggestive Evidence of			
			Carcinogenicity, but Not			
			Sufficient to Assess Human			Hemangiomas in CD(SD)BR rats (M); Preputial gland tumors in
Ziram	137-30-4	034805	Carcinogenic Potential	2/6/2003	NR	F344 rats (M)
			Not Likely to Be Carcinogenic			
Zoxamide	156052-68-5	101702	to Humans	2/7/2001	NR	Not Applicable